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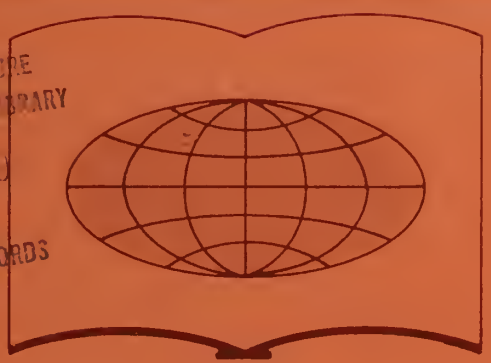

Volume 4 Number 18
AUGUST 30, 1968

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PESTICIDES DOCUMENTATION BULLETIN

Volume 4
August 30, 1968
Number 18

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

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Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

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In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The Intredis Register is a system of electronic data retrieval for the field of forest pathology. It is composed of two elements: (1) a set of punchcards each containing a reference to an abstracted article on some phase of forest pathology; and (2) a system for sorting or electronically scanning these cards so that references may be printed out either by subject breakdown, by country to which the reference is germane, by the host plant genus or species, by the organism causing the disease, or by the abstracting journal consulted. Print-outs can be provided consisting of all references in the card register that deal with subjects, countries, hosts, plants, or causal organism.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
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ACKNOWLEDGMENT

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ENTOMOLOGY

16974-68
TO THE METHODS OF STUDYING THE ENVIRONMENTAL TEMPERATURE OF THE TICK IXODES RICINUS L.
M Daniel V Cerny
Folia Parasitol 14(2):177-183
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Environment, Insect ecology, Insect vectors, Ixodes ricinus, Ixodides, Microclimate, Temperature.

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T Davis Jr
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OBSERVATIONS OVER RESTRAINING THE STINK BUG (PERILLUS BIOCULATUS (FABR.) (PENTATOMIDAE) FACING ITS PREY LEPTINOTARSA DECEMLINEATA (SAY) (CHRYSOMELIDAE). (GER)
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A BRIEF REVIEW OF THE PRINCIPLES OF LIGHT TRAP DESIGN WITH A DESCRIPTION OF AN EFFICIENT TRAP FOR COLLECTING NOCTUID MOTHS.
D F Hardwick
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Insect collecting equipment, Insect traps, Light traps, Moths, Noctuidae.

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E A Harrell W W Hare R L Burton
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Equipment, Insect collecting equipment, Insect rearing, Methodology, Pupae, Spodoptera frugiperda.

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A Hein
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Anoplura, Insect cages, Leaves, Research.

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Agricultural outlook, Aquatic birds, Chemical control (insects), Culicidae, Insect control, Pesticides, Water, Wildlife management.

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G W Seifert P H Springell J Tatchell
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A RACK FOR HOLDING MALE GYPSY MOTHS DURING LABORATORY BIOASSAYS OF AIRBORNE ATTRACTANTS.
R M Waters M Jacobson
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Apples, Carpocapsa pomonella, Insect behavior, Insect control, Larvae, Leaves, Weather.

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C P Alexander
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27 Nov 1967 420 C12
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Choristoneura pinus, Experimental insects, Insect nutrition, Insect rearing.

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Abstract

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CHIRONOMIDEN LARVA AND PUPAE FROM THE HAMORI LAKE. (GE)
A Berczik
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Aquatic insects, Chironomidae, Insect taxonomy, Larvae, Pupae. Russian summary

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24 Jun 1968 410.9 SV22
Insect taxonomy, Pterophoridae, Zoogeography. French summary

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Chrysomelidae, Insect taxonomy, Nearctic Region, Xenochalepus, Zoogeography.

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A L Capener
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R Charpentier
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Heteroceridae, Insect taxonomy, Zoogeography.
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W G Hart V I Myers
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Aegeriidae, Ceramhycidae, Coleoptera, Cossidae, Frass, Insect control, Lepidoptera, Quercus, Wood-destroying insects.

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Argas persicus, Argas rohertsi, Insect taxonomy, Parasitic insects.

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L A Hoying
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Insect migration, Nymphalidae, Vanessa cardui, Zoogeography.

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N W Hussey
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M L Jerath
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Chilotrea, Eldana saccharina, Insect dissemination, Insect ecology, Population, Sesamia nonagrioides hotanephaga, Sugarcane, Temperature, Weather.

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M A Kamran E Raros
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Chilo suppressalis, Chilotraea polychrysa, Insect pests, Population, Rice, Sesamia inferens, Temperature, Tryporyza incertulas, Tryporyza innotata, Weather.

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Z Kaszab
Acta Zool (budapest) 14(3-4):339-397 MAP REF
29 Jun 1968 410 AC85
Insect taxonomy, Tenehrionidae, Zoogeography. Russian summary

This is a report of an extensive taxonomic survey of Tenebrionidae in Mongolia hy Z. Kaszah.

17034-68
DATA TO THE KNOWLEDGE OF CALLOGONIA VIRGO TR. AND THE DESCRIPTION OF A NEW SUBSPECIES (LEPIDOPTERA: NOCTUIDAE).
L Kovacs
Acta Zool (budapest) 14(3-4):399-405 REF
29 Jun 1968 410 AC85
Insect taxonomy, Light traps, Noctuidae, Zoogeography. Russian summary

17035-68
BIOSYSTEMATIC, CYTOLOBICAL, AND SEX RATIO STUDIES OF CLOSELY RELATED BARK BEETLES (COLEOPTERA0 SCOLYTIDAE).
G N Lanier
Diss Abstr Sect B 28(10):6167B
Apr 1968 Z5055.U49D53
Coleoptera, Cytology, Insect genetics, Insect taxonomy, Polymorphism, Scolytidae, Sex.

17036-68
SYSTEMATIC STUDIES OF SOME PSEUDOSCORPIONS (ARACHNIDA: PSEUDOSCORPIONIDA) FROM THE SOUTHEASTERN UNITED STATES.
J E Lawson
Diss Abstr Sect B 28(10):4351B
Apr 1968 Z5055.U49D53
Arachnida, Chaetotaxy, Illustrations, Insect hiology, Insect identification, Kleptochthonius croshyi, Kleptochthonius multispinosus, Leaves, Methodology, Microbisium confusum, Research.

17037-68
NATURAL REGULATION AND ARTIFICIAL CONTROL OF BROWN LOCUST NUMBERS.
A Lea
Entomol Soc Southern Afr J 31(1):97-111 REF
Mar 1968 420 EN86
Acrididae, Biological control (insects), Chemical control (insects), Entomology, Epidemiology, Experimental insects, Insect outbreaks, Population, Weather.

17038-68
COSMOPOLITAN AND PANTROPICAL SPECIES OF THERIDIID SPIDERS (ARANEAE: THERIDIIDAE).
H W Levi
Pacific Insects 9(2):175-186
20 Jun 1967 421 P11
Insect taxonomy, Reviews, Spiders.

Abstract

17039-68
REVIEW OF SOME RECENT RESEARCH ON ONCHOCERCA VECTORS.
D J Lewis
Roy Soc Trop Med Hyg Trans 62(1):19-21 REF
1968 448.9 R813
Chemical control (insects), Food, Insect dissemination, Insect flight, Insect migration, Insect physiology, Insect vectors, Onchocerciasis, Parasitic insects, Simuliidae, Taxonomy.

17040-68
PROBLEMS IN INSECT MORPHOLOGY. (JA)
R Matsuda
Kontyu 35(3):186-195
Sep 1967 421 K833
Entomology, Insect morphology, Insect taxonomy.

17041-68
ODONATA FROM VENETIA. (CONTRIBUTION TO THE KNOWLEDGE OF ODONATA). (IT)
A Minelli
Soc Entomol Ital Mem 45(0):111-134 REF
1966 420 IT1M
Insect taxonomy, Odonata, Zoogeography, Italian, German and French summaries

17042-68
RESULTS OF THE ZOOLOGICAL INVESTIGATION OF DR. Z. KASZAB IN MONGOLIA. 100 CHRYSIDIDAE (HYMENOPTERA). (GE)
L Moczar
Acta Zool (budapest) 13(1-2):183-190
1967 410 AC85
Chrysididae, Insect taxonomy. Russian summary

17043-68
CONCLUSIONS OF THE ZOOLOGICAL INVESTIGATIONS OF DR. Z. KASZAB IN MONGOLIA. 167. POMPILIDAE (HYMENOPTERA). (GE)
L Moczar
Acta Zool (budapest) 14(3-4):427-439 REF
29 Jun 1968 410 AC85
Insect taxonomy, Pompilidae. Russian summary

17044-68
REDESCRIPTION OF THE TYPE SPECIES OF THE PSEUDOSCORPION GENUS KEWOCHTHONIUS CHAMBERLIN.
W B Muchmore
Entomol News (philadelphia) 79(3):71-76 REF
Mar 1968 421 EN88
Chelonethida, Kewochthonius, Taxonomy.

17045-68
UTAH MOSQUITOES, THEIR PUBLISHED HISTORY: SUPPLEMENT II.
L T Nielsen J H Linam
Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING:21-23
1966 420 UT1
Bihliography, Culicidae, Histology, Indexes.

17046-68
THE GENERA OF THE PALEARCTIC TORTRICIDAE. II THE SUBFAMILY OLETHREUTINAE. EIGHT PARTS AND CONCLUSION WITH A TOTAL INDEX OF ALL PARTS. (GER)
N S Obraztsov
Tijdschr Entomol 111(1):1-48
21 Jun 1968 421 T21
Insect taxonomy, Palearctic Region, Tortricidae.

Abstract

17047-68
RESULTS OF THE ZOOLOGICAL INVESTIGATION OF DR. Z. KASZAB IN MONGOLIA. 101. BRACONIDAE (HYMENOPTERA). 1. (ge)
J Papp
Acta Zool (budapest) 13(1-2):191-226 REF
1967 410 AC85
Braconidae, Insect taxonomy. Russian summary

17048-68
POMPILIDAE AND SPHECIDAE (HYMENOPTERA) FROM STRASSFURT (SACHSEN-ANHALT). (GE)
F Parre
Entomol Z 78(11):121-124
01 Jun 1968 421 EN85
Insect taxonomy, Pompilidae, Sphecidae. German summary

17049-68
THE PERIODICAL CICADA, BROOD. VII. (HOMOPTERA: CICADIDAE: MAGICICADA).
L L Pechuman
Amer Entomol Soc Trans 94(2):137-153 REF
Jun 1968 420 P53
Cicadidae, Homoptera, Insect taxonomy, Time, Zoogeography.

17050-68
ADDENDA TO THE LIST OF THE BUTTERFLIES OF MICHIGAN.
O A Perkins
Lepidopterists Soc J 22(2):119-120
31 May 1968 421 L554
Butterflies, Insect dissemination, Insect names, Insect taxonomy, Zoogeography.

17051-68
NEW NORTH AMERICAN TABANIDAE. XIX. FOUR NEW SPECIES FROM MEXICO, HONDURAS, AND ARIZONA.
C B Philip
Entomol Soc Amer Ann 61(2):380-383
15 Mar 1968 420 EN82
Insect taxonomy, Tabanidae.

17052-68
MOLECULAR SIEVING OF HYDROPHILIC MOLECULES BY THE RECTAL INTIMA OF THE DESERT LOCUST (SCHISTOCERCA GREGARIA).
J E Phillips A A Dockrill
J Exp Biol 48(3):521-532 REF
Jun 1968 442.8 B77
Cuticle, Insect physiology, Molecules, Radioisotopes, Schistocerca gregaria.

17053-68
THE TAXONOMIC GROUPING OF PALEARCTIC GNORIMOSCHEMA SPECIES (LEPIDOPTERA; GELECHIIDAE) INCLUDING A DESCRIPTION OF A NEW SPECIES. (GE)
D Povolny
Arkiv Zool 18(5):393-404
1967 410.9 SV22
Gelechiidae, Insect taxonomy. German summary

17054-68
THE GENUS PSITTACOBROSUS (MALLOPHAGA: MENOPONIDAE) OF THE NEOTROPICAL PSITTACIFORMES.
R D Price J R Beer
Entomol Soc Amer Ann 61(2):261-276
15 Mar 1968 420 EN82
Insect taxonomy, Mallophaga, Menoponidae, Psittacobrosus.

17055-68
ON HISTOPATHOLOGY AND HISTOCHEMISTRY OF INSECTICIDE-TREATED INSECTS. I-NON-SPECIFIC PHOSPHATASES IN THE MIDGUT AND CAECA OF PYRETHRINS TREATED PERIPLANETA AMERICANA L.
S C Saxfna J P Srivastava
Pyrethrum Post 9(3):9-13 REF
Apr 1968 421 P99
Histochemistry, Insect diseases, Insect histology, Insecticides, Periplaneta americana, Phosphatases, Pyrethrum, Research.

17056-68
ALARM, DEFENSE, AND CONSTRUCTION BEHAVIOR RELATIONSHIPS IN TERMITES (ISOPTERA).
A M Stuart
Science 156(3778):1123-1125
27 May 1967 470 SCI2
Insect behavior, Insect rearing, Nymphs, Research, Social insects, Termites.

17057-68
BEDELLIA EHIKELLA SP. N. (LEPIDOPTERA: LITHOCOLLETIDAE).
J Szocs
Acta Zool (budapest) 13(1-2):231-236 REF
1967 410 AC85
Bedellia ehikella, Gracillariidae, Insect morphology, Leaf miners, Lepidoptera. Russian summary

17058-68
LEPIDOPTERA FROM MOREA. A VAST CONTRIBUTION FOR FAUNA OF THE PELOPONNESUS (GREECE). (GE)
J Thurner
Wien Entomol Ges Z 52(1):5-23
15 Mar 1967 421 OS7
Indexing, Insect ecology, Insect taxonomy, Lepidoptera.

17059-68
LEPIDOPTERA FROM MOREA. A VAST CONTRIBUTION FOR FAUNA OF THE PELOPONNESUS (GREECE). (GE)
J Thurner
Wien Entomol Ges Z 52(6):50-58 REF
01 Dec 1967 421 OS7
Indexing, Insect ecology, Insect taxonomy, Lepidoptera, Zoogeography.

17060-68
REVISION OF THE WORLD SPECIES OF EUPHUMOSIA (DIPTERA: CALLIPHORIDAE).
R L Torgerson M T James
Pacific Insects 9(2):205-242
20 Jun 1967 421 P11
Calliphoridae, Insect taxonomy, Zoogeography.
Abstract

17061-68
A DECADE OF INSECT POPULATION ECOLOGY IN JAPAN. (JA)
S Utida
Kontyu 35(3):196-204
Sep 1967 421 K833
Entomology, Insect dissemination, Insect ecology, Population statistics.

17062-68
REVIEW OF SOUTH AMERICAN GENUS BELOPOEUS SCHOENHERR (COLEOPTERA, CURCULIONIDAE, RHYNCHOPHORINAE).
P Vaurie
Coleopt Bull 22(2):39-44
Jun 1968 421 C674
Curculionidae, Insect taxonomy, Neotropical Region.

17063-68
PROBLEMS OF INSECT TAXONOMY WITH SPECIAL REFERENCE TO THE INTERNATIONAL CODE OF ZOOLOGICAL NOMENCLATURE. (JA)
C Watanabe
Kontyu 35(3):155-163
Sep 1967 421 K833
Entomology, Insect taxonomy, Nomenclature, Zoology.

17064-68
THE ZOOLOGICAL RESULTS OF GY. TOPAL'S COLLECTINGS IN SOUTH ARGENTINA. 21. COLEOPTERA: ANTHICIDAE.
F G Werner
Acta Zool (budapest) 13(1-2):237-243
1967 410 AC85
Anthicidae, Insect taxonomy. Russian summary

17065-68
THE PHYLOGENY AND ZOOGEOGRAPHY OF THE ENDEMIC GENERA OF THE HAWAIIAN PTEROMALIDAE (HYMENOPTERA: CHALCIDOIDEA).
C M Yoshimoto
Pacific Insects 9(2):197-203 REF
20 Jun 1967 421 P11
Insect evolution, Insect taxonomy, Pteromalidae, Zoogeography.
Abstract

PHYSIOLOGY AND BIOCHEMISTRY

17066-68
SELECTIVE INSECT CONTROL. SB931.0S4.
81 P. REF. MASSACHUSETTS, NIMROD PRESS INCORPORATED
1966
Agricultural outlook, Biological control (insects), Insect control, Insect repellents, Integrated control (insects), Research, Sterilization.

17067-68
THE REPRODUCTIVE BIOLOGY OF HIPPELATES COLLUSOR. III. EFFECT OF TEMPERATURE ON OOGENESIS.
T S Adams M S Mulla
Entomol Soc Amer Ann 61(2):368-372 REF
15 Mar 1968 420 EN82
Chloropidae, Hippelates collusor, Insect morphology, Metamorphosis, Oogenesis, Reproduction, Temperature.

17068-68
VARIATION IN TOXICITY OF MALTHION WHEN APPLIED TO CERTAIN BODY REGIONS OF SCHISTOCERCA GREGARIA (FORSK.).
H Ahmed B G Gardiner
Bull Entomol Res 57(4):651-659 REF
Jun 1968 421 B87
Chemical control (insects), Insect metabolism, Insect physiology, Insecticides, Malathion, Schistocerca gregaria, Toxicology.

17069-68
FINAL TECHNICAL REPORT ON THE PL. 480 PROJECT. SYSTEMATIC AND BIOLOGICAL STUDIES ON INDIAN THRIPS. QL503.0T50A5.
T N Ananthakrishman
42 P.
1968
Biology, Insect morphology, Research, Surveys, Thysanoptera, Zoogeography.

17070-68
A COMPARISON OF THE TOXICITY OF SOME VARIETIES OF BACILLUS THURINGIENSIS BERLINER FOR SILKWORM LARVAE.
T A Angus J R Norris
J Invertebrate Pathol 11(2):289-295 REF
Aug 1968 421 J826
Bacillus thuringiensis, Bombyx mori, Culture media, Larvae, Mortality, Toxicology.

17071-68
OBSERVATIONS ON OVIPOSITION AND LIFE HISTORY OF AN AQUATIC BUG, SPHAERODEMA RUSTICUM FABR. (HEMIPTERA).
J Bahadur
Zool Pol 18(1):107-115
1968 410 Z712
Aquatic insects, Hemiptera, Insect behavior, Insect morphology, Oviposition, Sphaerodema rusticum. English, Polish and Russian summaries
Abstract

17072-68
INSECTICIDES IN DRY SUGAR BAITS AGAINST TWO STRAINS OF HOUSE FLIES.
D L Bailey G C LaBrecque D W Meifert P M Bishop
J Econ Entomol 61(3):743-747
Jun 1968 421 J822
Baits, Biochemistry, Chemical control (insects), Experimental insects, Immunity, Insect collecting equipment, Insect genetics, Insecticides, Musca domestica, Sugar, Trichlorfon.

17073-68
MODE OF ACTION OF ORGANIC THIOCYANATES AS INSECTICIDES AND CARBAMATE SYNERGISTS.
N M S Bakry
Diss Abstr Sect B 28(10):3938B
Apr 1968 Z5055.U49D53
Benzyl cyanide, Biochemistry, Carbamates, Chromatography, Electrons, Insecticides, Metabolism, Musca domestica, Mushrooms, Organic compounds, Thiocyanates, Toxicology.

17074-68
BIONOMIC NOTES ON THE HEXAPODOUS PARASITES OF ACROBASIS RUBRIFASCIELLA.
W V Balduf
Entomol Soc Amer Ann 61(2):463-476 REF
15 Mar 1968 420 EN82

Acrobasis ruhrifasciella, Caterpillars, Insect ecology.

17075-68
THE LONGEVITY OF THE PARASITIC STAGES AND THE DYNAMICS OF EGG PRODUCTION OF THE NEMATODE SYNGAMUS TRACHEA (MONTAGU, 1811) IN CHICKEN AND TURKEYS.
V Barus
Folia Parasitol 13(3):274-277
1966 436.8 C33
Animal diseases, Chickens, Longevity, Nematodes, Parasitism, Syngamus trachea, Turkeys.

Abstract: Production of eggs by the female worm is in direct correlation with the female's growth and physiological aging.

17076-68
DETERMINANTS OF ABUNDANCE IN A POPULATION OF THE QUEENSLAND FRUIT FLY.
M A Bateman
Roy Entomol Soc London Symp 4:119-131 REF
1968 420 R81
Chemical control (insects), Dacus tryoni, Physiology, Research, Weather.

17077-68
NUTRITION OF EUROPEAN CORN BORER, OSTRINIA NUBILALIS. VI. A LARVAL REARING MEDIUM WITHOUT CRUDE PLANT FRACTIONS.
S D Beck G M Chippendale D E Swinton
Entomol Soc Amer Ann 61(2):459-462 REF
15 Mar 1968 420 EN82
Culture media, Insect nutrition, Insect rearing equipment, Larvae, Ostrinia nubilalis.

17078-68
THE EFFECTS OF INTER-SPECIES COPULATION ON THE FECUNDITY AND FERTILITY OF TRIBOLIUM (COLEOPTERA, TENEBRIONIDAE).
J F Belshe
Diss Abstr Sect B 28(9):3921B
Mar 1968 Z5055.U49D53
Coleoptera, Fertility, Insect genetics, Reproduction, Tenebrionidae, Tribolium castaneum, Tribolium confusum.

17079-68
BIOLOGICAL STUDIES ON CHIRONOMIDS WITH EMPHASIS ON THE TEMPERATURE RELATIONS OF THE DEVELOPMENTAL STAGES.
K D Biever
Diss Abstr Sect B 28(10):4342B
Apr 1968 Z5055.U49D53
Chironomidae, Experimental insects, Insect biology, Insect physiology, Insect rearing, Metamorphosis, Temperature. Species used were: Goeldichironomus holoprasinus, C. monochromus, Pentaneura pilosella, Tanypus grodhausi, and Micropsectra nigripilus

17080-68
STERILIZATION OF THE AZUKI BEAN WEEVIL, CALLOSOBROCHUS CHINENSIS, BY METEPA AND HEMPA.
A B Borkovec S Nagasawa H Shinohara
J Econ Entomol 61(3):695-698
Jun 1968 421 J822
Biochemistry, Biological assay, Callosobruchus chinensis, Chemical control (insects), Chemosterilants, Dipping, Dosage, Fumigation, Hempa, Insecticide application, Metepa, Ovulation.

17081-68
COCKROACHES (PERIPLANETA AMERICANA (L.)) AS PREDATORS.
J Bowden J Phipps
Entomol Mon Mag 103(1238-1240):175-176
Jul 1967 421 EN86
Beneficial insects, Blattidae, Insect behavior, Insect nutrition, Periplaneta americana, Predaceous insects.

17082-68
PROPERTIES OF AN ACETYLCHOLINESTERASE FROM THE FACE FLY, MUSCA AUTUMNALIS.
T A Bratkowski C O Knowles
Entomol Soc Amer Ann 61(2):397-402 REF
15 Mar 1968 420 EN82
Acetylcholinesterases, Biochemistry, Cattle, Esterases, Insect pests, Insect vectors, Musca autumnalis.

17083-68
A CONVENIENT SYNTHESIS OF MIXED ISOMERS OF JUVENILE HORMONE.
B H Braun M Jacobson M Schwarz P E Sonnet N Wakahayashi
J Econ Entomol 61(3):866-869
Jun 1968 421 J822
Biochemistry, Chemical reactions, Epoxy resins, Hormones, Hyalophora cecropia, Insect physiology, Isomerism, Metabolism, Tenebrio molitor.

17084-68
LOCALIZATION OF NUCLEOLI OF TOW PERICARDIAL NERVES OF DICTYOPTERA, BLABERIDAE AND BLATTIDAE. (FR)
P Brousse-Gaury
Acad Sci Compt Rend Ser D Sci Nat 266(19):1972-1975
06 May 1968 505 P21
Blaberidae, Blattidae, Cell nucleus, Dictyoptera, Insect physiology, Nervous system, Periplaneta americana.

17085-68
CONTROL OF THE GREATER AND LESSER WAX MOTHS (GALLERIA MELLONELLA AND ACHROIA GRISELLA) WITH BACILLUS THURINGIENSIS.
H D Burges L Bailey
J Invertebrate Pathol 11(2):184-195 REF
Aug 1968 421 J826
Achroia grisella, Bacillus thuringiensis, Biological assay, Culture media, Galleria mellonella, Insect control, Laboratories, Lethal factors, Research.

17086-68
INSECT PESTS OF COTTON. VII. EVALUATION STUDIES ON INSECTICIDES.
D K Butani
Indian J Entomol 29(4):360-369 REF
Dec 1967 420 IN23
Agricultural economics, Cotton, Insect control, Insect pests, Insecticides.

17087-68
SUGAR FOR THE SURVIVAL OF LYGUS HESPERUS ON ALFALFA.
G D Butler
J Econ Entomol 61(3):854-855
Jun 1968 421 J822
Alfalfa, Culture media, Food, Greenhouse culture, Insect pests, Lygus hesperus, Nymphs, Research, Sugar, Therapeutics.

17088-68
EFFECT OF RELATIVE HUMIDITY ON THE DEVELOPMENTAL STAGES OF TRIBOLIUM CASTANEUM (COLEOPTERA: TENEBRIONIDAE).
H S Chaudhry R P D Kapoor
Entomol Soc Amer Ann 61(2):290-292 REF
15 Mar 1968 420 EN82
Coleoptera, Humidity, Insect metabolism, Metamorphosis, Temperature, Tenebrionidae, Tribolium castaneum.

17089-68
BIOASSAY TECHNIQUE FOR INSECT VIRUSES.
A R Chauthani
J Invertebrate Pathol 11(2):242-245
Aug 1968 421 J826
Granuloses, Heliothis, Polyhedroses, Prodenia ornithogalli, Spodoptera exigua, Trichoplusia ni, Virus diseases (insects).

17090-68
THE EFFECT OF A LOW PROTEIN DIET AND A GLUCOSE AND FILTER PAPER DIET ON THE COURSE OF INFECTION OF NIPPOSTRONGYLUS BRASILIENSIS.
K R Clarke
Parasitology 58(2):325-339 REF
May 1968 448.8 P21
Acanthocephala, Diet, Filter paper, Glucose, Larvae, Nippostrongylus brasiliensis, Parasitology, Protein, Rats.

17091-68
FIELD EVALUATION OF INSECTICIDES FOR CONTROL OF THE ALFALFA WEEVIL IN MARYLAND, 1962-66.
R M Coan V E Adler C C Blickenstaff A L Steinhauer
World Health Organ WHO/VECTOR Contr 33(127):20 P.
Mar 1968 A420 R31
Alfalfa, Chemical control (insects), Hypera postica, Insecticides, Pesticide application, Time.

17092-68
SOME EFFECTS OF PHOTOPERIOD, TEMPERATURE, AND FOOD ON THE INDUCTION OF DIAPAUSE IN THE BOLL WEEVIL.
P P Cohh M H Bass
J Econ Entomol 61(3):624-625
Jun 1968 421 J822
Anthonomus grandis, Diapause, Experimental insects, Food, Insect physiology, Photoperiodism, Temperature.

17093-68
STUDY OF THE BEHAVIOR OF TWO BACTERIAL PATHOGENS (PSEUDOMONAS PHASEOLICOLA: ERWINIA CAROTOVORA F.SP. PHYTOPHTHORA) IN SOIL TREATED BY STEAM. (FR)
A Coleno F Rapilly
Phytiat-phytopharm 16(3):157-164 REF
Sep 1967 464.8 P564
Antibodies, Bacteria, Erwinia carotovora, Pseudomonas phaseolicola, Soil testing, Steam.

17094-68
PROGRESS IN MOSQUITO CONTROL IN UTAH COUNTY.
T Davis
Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING:15-16
1966 420 UT1
Aedes dorsalis, Aerial spraying, Breeding, Chemical control (insects), Insect control.

17095-68
THE EFFECT OF TEMPERATURE AND MOISTURE ON THE DEVELOPMENT OF FANNIA CANICULARIS (L.) AND FANNIA FEMORALIS (STEIN) (DIPTERA: MUSCIDAE).
A S Deal
Diss Abstr Sect B 28(9):3737B
Mar 1968 Z5055.U49D53
Diptera, Fannia canicularis, Fannia femoralis, Humidity, Insect eggs, Insect morphology, Insect temperature, Muscidae.

17096-68
SAMPLING METHODS FOR RED SPIDER MITES.
G H L Dicker
Entomophaga Mem Hors Ser 3:57-58
1967 421 EN835M
Eggs, Larvae, Mites, Pigmentation, Tetranychidae, Tetranychus urticae.

17097-68
THE SPIDERS OF MISSISSIPPI.
P R Dorris
Diss Abstr Sect B 28(9):3586B
Mar 1968 Z5055.U49D53
Habitats, Insect ecology, Insect taxonomy, Spiders, Zoogeography. The families of spiders with the largest number of species in Mississippi are: Salticidae, Araneidae, Theridiidae, Lycosidae, and Thomisidae.

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17098-68
EFFECTS OF THE CHEMOSTERILANT HEMPA ON GYPSY MOTH METAMORPHOSIS.
J E Downey
J Econ Entomol 61(3):846
Jun 1968 421 J822
Biochemistry, Chemical control (insects), Chemosterilants, Diet, Experimental insects, Hempa, Insect rearing, Metamorphosis, Porthetria dispar.

17099-68
ONCHOCERCA-SIMULIUM COMPLEXES. V. THE INTAKE AND SUBSEQUENT FATE OF MICROFILARIAE OF A GUATEMALAN STRAIN OF ONCHOCERCA VOLVULUS IN FOREST AND SUDAN-SAVANNA FORMS OF WEST AFRICAN SIMULIUM DAMNOSUM.
B O L Duke P J Moore J R De Leon
Ann Trop Med Parasitol 61(3):332-337
Sep 1967 448.9 L75A
Biological transport, Filariasis, Forest insects, Immunization, Larvae, Monkeys, Onchocerca volvulus, Parasitism, Simulium damnosum.

17100-68
STUDIES ON THE MORPHOLOGY AND BIOLOGY OF LECANIUM FLETCHERI CKLL. (HOMOPTERA, COCCOIDEA) AND RELATED SPECIES.
A Dziedzicka
Zool Pol 18(1):125-165 REF
1968 410 Z712
Coccoidea, Insect biology, Insect diseases, Insect morphology, Lecanium fletcheri, Parthenogenesis, Plant diseases, Zoogeography. Polish, Russian and English summaries
Abstract

17101-68
SOME ILLUSTRATIONS OF MICROSCULPTURE IN THE HYMENOPTERA.
R D Eady
Roy Entomol Soc London Proc Ser A Gen Entomol 43(4-6):66-72
12 Jul 1968 420 L84PA
Hymenoptera, Illustrations, Insect anatomy, Microscopy.

17102-68
THE INFLUENCE OF REPELLENCY ON THE EFFICACY OF BLATTICIDES. III. FIELD EXPERIMENTS WITH GERMAN COCKROACHES WITH NOTES ON THREE OTHER SPECIES.
W Ebeling D A Reierson R E Wagner
J Econ Entomol 61(3):751-761 REF
Jun 1968 421 J822
Biochemistry, Blattella germanica, Blatticides, Boric acid, Chemical control (insects), Diazinon, Dichlorvos, Dosage, Insect repellents, Insecticides, Spraying.

17103-68
INSECT OXIDASES AND DETOXICATION OF CARBAMATE INSECTICIDES.
S A E S A El-Aziz
Diss Abstr Sect B 28(10):4164B
Apr 1968 Z5055.U49D53
Aging, Biochemistry, Carbamates, Chemical control (insects), Cytochromes, Enzymes, Immunity, Insect nutrition, Insecticide application, Insecticides, Musca domestica, Oxidases, Phenolases, Sex, Toxicology. Insecticides used were: MIP, MPPC, Baygon, Mesurol, and Zectran.

17104-68
ENDOCRINE CONTROL OF FEMALE RECEPTIVITY IN LEUCOPHAEA MADERAE (BLATTARIA).
F Engelman R H Barth
Entomol Soc Amer Ann 61(2):503-505 REF
15 Mar 1968 420 EN82
Corpora allata, Endocrine glands, Hormones, Insect behavior, Leucophaea maderae, Reproduction, Sex attractants.

17105-68
RESISTANCE PATTERNS AND FECUNDITY OF HOUSE FLIES (MUSCA DOMESTICA L.) SELECTED WITH DIAZINON, DIMETILAN, AND COMBINATIONS OF THE TWO INSECTICIDES.
K J Ensing
Diss Abstr Sect B 28(10):4165B-4166B
Apr 1968 Z5055.U49D53
Biochemistry, Biological assay, Chemical control (insects), Diazinon, Dimetilan, Fertility, Immunity, Insect eggs, Insecticide application, Insecticides, Musca domestica, Research.

17106-68
AN IMPROVED METHOD FOR EMBEDDING AND SECTIONING EGGS OF THE MIGRATORY GRASSHOPPER, MELANOPLUS SANGUINIPES FAB. (ORTHOPTERA: ACRIDIDAE).
A B Ewen
Can J Zool 46(5):1084-1084-1085
Sep 1968 470 C16D
Biochemistry, Equipment, Insect eggs, Insect migration, Melanoplus sanguinipes, Methodology, Ovulation, Tissues.

17107-68
MITOTIC ACTIVITY OF THE CIRCULATING HEMOCYTES OF THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS.
D Feir E McClain
Entomol Soc Amer Ann 61(2):413-416
15 Mar 1968 420 EN82
Blood cells, Mitosis, Oncopeltus fasciatus.

17108-68
INDUCED CHANGES IN THE MITOTIC ACTIVITY OF HEMOCYTES OF THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS.
D Feir E McClain
Entomol Soc Amer Ann 61(2):416-421 REF
15 Mar 1968 420 EN82
Blood cells, Experimental insects, Mitosis, Oncopeltus fasciatus.

17109-68
THE CONTROL OF POPULATIONS THROUGH LIMITATION OF HABITAT DISTRIBUTION AS EXEMPLIFIED BY TSETSE FLIES.
J Ford
Roy Entomol Soc London Symp 4:109-118 REF
1968 420 R81
Ecology, Environment, Geography, Glossina, Insect control, Insect flight, Insect migration, Population statistics.

17110-68
THE PROTEIN COMPONENTS OF A LATENT PHENOLOXIDASE SYSTEM IN THE PREPUPAE OF HOUSEFLY.
M Funatsu K Hayashi G Namihira
Agr Biol Chem 31(11):1379-1380
Nov 1967 385 AG8B
Enzymes, Larvae, Metamorphosis, Musca domestica, Phenolases, Proteins, Pupae.

17111-68
CHOLINE ACTIVITY DURING THE DEVELOPMENT OF DROSOPHILA MELANOGASTER.
B W Geer G F Vovis M A Yund
Physiol Zool 41(3):280-292 REF
Jul 1968 410 P56
Choline, Drosophila melanogaster, Growth factors, Insect physiology, Larvae, Metabolism.
Abstract

17112-68
SEXUAL COMPETITIVENESS OF MALE BOLL WEEVILS STERILIZED WITH APHOLATE UNAFFECTED BY DIET.
F R Gilliland T B Davich
J Econ Entomol 61(3):852-853
Jun 1968 421 J822
Anthonomus grandis, Apholate, Biochemistry, Chemosterilants, Diet, Insect control, Insect eggs, Sex.

17113-68
LOW VOLUME AIRPLANE SPRAYS FOR THE CONTROL OF MOSQUITOES.
C M Gjullin G W Eddy
Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING:7-9
1966 420 UT1
Aedes nigromaculis, Aerial spraying, Chemical control (insects), Culicidae, Insecticides, Research.

17114-68
AN IMMUNOLOGICAL STUDY OF THE ANTIGENS OF ANTHONOMUS GRANDIS GRANDIS AND ANTHONOMUS GRANDIS THURBERIAE.
B Glick N Mitlin
Entomol Soc Amer Ann 61(2):548-550 REF
15 Mar 1968 420 EN82
Anthonomus grandis, Anthonomus grandis thurberiae, Antigens, Immunology, Insect morphology, Insect taxonomy.

17115-68
ANAEROBIC INDUCTION OF PRIMARY CHEMICAL ATTRACTANCY FOR AMBROSIA BEETLES.
K Graham
Can J Zool 46(5):905-908 REF
Sep 1968 470 C16D
Attractants, Biochemistry, Metabolism, Oxygen, Research, Temperature, Time, Trypodendron lineatum.

17116-68
THE INSECTS AND OTHER INHABITANTS OF SHELF FUNGI IN THE SOUTHERN BLUE RIDGE REGION OF WESTERN NORTH CAROLINA. III. ISOPTERA, LEPIDOPTERA AND ANTS.
R C Graves A C F Graves
Entomol Soc Amer Ann 61(2):383-385 REF
15 Mar 1968 420 EN82
Formicidae, Insect physiology, Lepidoptera, Termites, Wood destroying fungi.

17117-68
MICRO-POTENTIOMETRIC PH DETERMINATIONS OF MUSCOID MAGGOT DIGESTIVE TRACTS.
B Greenberg
Entomol Soc Amer Ann 61(2):365-368 REF
15 Mar 1968 420 EN82
Calliphoridae, Gastrointestinal system, Hydrogen-ion concentration, Insect physiology, Maggots, Musca domestica, Muscoidea, Phormia regina, Potentiometry, Sarcophagidae.

17118-68
ADAPTATION OF INSECTS TO NORNICOTINE.
F E Guthrie E Hodgson
Entomol Soc Amer Ann 61(2):545-547 REF
15 Mar 1968 420 EN82
Diptera, Epitrix hirtipennis, Excreta, Food habits, Grasshoppers, Insect adaptation, Insect metabolism, Manduca quinquemaculata, Nornicotine, Prodenia eridania.

17119-68
OBSERVATIONS ON THE INFECTION OF JAPANESE BEETLE LARVAE WITH BACILLUS POPILLIAE.
H H Hall G St. Julian G L Adams
J Econ Entomol 61(3):840-843
Jun 1968 421 J822
Bacillus popilliae, Equipment, Insect diseases, Insect eggs, Insect rearing, Larvae, Popillia japonica, Sodium chloride, Temperature.

17120-68
LARCH SAWFLY SUPPRESSION WITH MALATHION LV(0R) CONCENTRATE.
J B Hanson
J Econ Entomol 61(3):872
Jun 1968 421 J822

Biochemistry, Chemical control (insects), Defoliation, Insecticides, Larix leptolepis, Malathion, Pristiphora erichsonii.

17121-68
ACTIVE TRANSPORT BY THE CECROPIA MIDGUT. III. MIDGUT POTENTIAL GENERATED DIRECTLY BY ACTIVE K-TRANSPORT.
W R Harvey J A Haskell S Nedergaard
J Exp Biol 48(1):1-12 REF
Feb 1968 442.8 B77
Biochemistry, Biological transport, Hyalophora cecropia, Intestines, Ions, Potassium.

17122-68
ACTIVE TRANSPORT BY THE CECROPIA MIDGUT. V. LOSS OF POTASSIUM TRANSPORT DURING LARVAL-PUPAL TRANSFORMATION.
J A Haskell W R Harvey R M Clark
J Exp Biol 48(1):25-37 REF
Feb 1968 442.8 B77
Biological transport, Ecdysone, Hyalophora cecropia, Hydrogen-ion concentration, Intestines, Ions, Metamorphosis, Potassium.

17123-68
FATTY ACIDS OF THE MOSQUITO, ANOPHELES FREEBORNI.
K Hayashiya R F Harwood
Entomol Soc Amer Ann 61(2):278-280 REF
15 Mar 1968 420 EN82
Anopheles, Anopheles freeborni, Chromatography, Hexadecenoic acid, cis-9-, Insect morphology, Oleic acid, Palmitic acid, Photoperiodism, Unsaturated compounds.

Abstract: Palmitic, palmitoleic, and oleic acids collectively comprised at least 700 of total fatty acid. In both strains, aged females with identical temperature experience on short photoperiod had 11-150 greater levels of principal unsaturated fatty acids than did females on long photoperiod conditions.

17124-68
POSTEMBRYONIC REPRODUCTIVE-SYSTEMS DEVELOPMENT IN EMPOASCA FABAE.
T J Helms
Entomol Soc Amer Ann 61(2):316-332 REF
15 Mar 1968 420 EN82
Empoasca fabae, Insect ecology, Morphology, Reproductive organs.

17125-68
SOME RECENT CHANGES IN THE APPROACH TO STUDIES OF CLIMATIC EFFECTS ON INSECT POPULATIONS.
W R Hewson
Roy Entomol Soc London Symp 18:37-46 REF
1968 420 R81
Biology, Climate, Correlation, Laboratories, Meteorology, Morphology, Population statistics, Research, Zeiraphera griseana.

17126-68
CADDIS LARVAE. LARVAE OF THE BRITISH TRICHOPTERA. QL517.4.0H5.
N E Hickin
476 P. LONDON, HUTCHINSON AND COMPANY LIMITED
1967
Economics, Insect biology, Insect evolution, Insect rearing, Insect taxonomy, Larvae, Metamorphosis, Trichoptera, Zoogeography.

17127-68
THE TACTICS OF A PREDATOR.
C S Holling
Roy Entomol Soc London Symp 4:47-58 REF
1968 420 R81
Ecology, Histology, Insect evolution, Laboratories, Pesticide residues, Podisus maculiventris, Population statistics, Predaceous insects, Research, Taxonomy.

17128-68
OVIPOSITION BEHAVIOR OF THE FACE FLY IN CAGED COW MANURE PATS.
A A Hower T H Cheng
J Econ Entomol 61(3):701-702
Jun 1968 421 J822
Insect behavior, Insect cages, Insect dissemination, Insect eggs, Manures, Musca autumnalis, Ovulation, Population.

17129-68
JUVENILE BOVINE LEUKOSIS; AN EPIZOOTIOLOGICAL, CLINICAL, PATHOANATOMICAL AND EXPERIMENTAL STUDY.
G Hugoson
Acta Vet Scand 22:108 P. REF
1967 41.8 AC87
Anatomy, Animal histology, Biochemistry, Bone marrow, Cattle, Cytology, Epidemiology, Epizootic diseases, Hematology, Injections, Laboratory animals, Leukemia, Livestock diseases, Microscopy, Research, Urine.

17130-68
THE HOST-FINDING BEHAVIOR OF THE HEN FLEA, CERATOPHYLLUS GALLINAE (SCHRANK) (SIPHONAPTERA).
D A Humphries
Parasitology 58(2):403-414 REF
May 1968 448.8 P21
Ceratophyllus gallinae, Hibernation, Insect behavior, Laboratories, Temperature, Vegetation.

17131-68
VARIATIONS IN GROWTH OF PLANTHOPPERS AND LEAFHOPPERS AMOUNG VARIETIES OF JAPANESE AND FOREIGN RICE PLANTS. TRANSL. 16904.
H Inoue
4 P.
Cicadellidae, Immunity, Insect pests, Insect physiology, Plant injuries, Research, Rice, Seedlings. Translation from Odokon-Chugoku. 8:17-19, 1966 translated by Hideo Ueno

17132-68
METHOD OF PREDICTING THE MOST ACTIVE DAYS OF STEM BORER. TRANSL. 16902.
N Isei S Yamashita
9 P.
Insect biology, Insect outbreaks, Insect pests, Methodology, Temperature, Weather. Translation from Shikoku Nogyo Kenkyu. 9:27-29, Feb., 1964. translated by Hideo Ueno

17133-68
RECENT ADVANCES IN NUTRITIONAL PHYSIOLOGY OF INSECTS. (JA)
S Ishii
Kontyu 35(3):240-247
Sep 1967 421 K833
Acids, Amylases, Biochemistry, Insect nutrition, Insect physiology.

17134-68
NEUROPHYSIOLOGY OF INSECT CHEMICAL SENSES. (JA)
S Ishikawa
Kontyu 35(3):231-239 REF
Sep 1967 421 K833
Chemoreceptors, Entomology, Insect physiology, Nervous system.

17135-68
STUDIES ON THE PROCESS OF THE OCCOURENCE OF WHITE-BLACK AND BROWN PLANTHOPPERS UP TO THEIR PRIMARY OUTBREAK.
S Itoga Y Ouchi
8 P.
Breeding, Insects, Larvae, Physiology, Research. Translation from Assoc. Plant Protect, Kyushu. Proc.8: 9-11 translated by Kazuko Nagatomi

17136-68
CROWDING EFFECTS ON PLUM CURCULIOS REARED AT SEVERAL DENSITIES ON TWO SIZES OF GREEN APPLES.
S W Jacklin C E Yonce J P Hollon
J Econ Entomol 61(3):816-819
Jun 1968 421 J822
Apples, Conotrachelus nenuphar, Density, Insect rearing, Larvae, Ovulation.

17137-68
ALCOHOL DEHYDROGENASE FROM DROSOPHILA: INTERCONVERSION OF ISOENZYMES. (ABSTRACT).
K B Jacobson J A Knopp J B Murphy
Fed Amer Soc Exp Biol Fed Proc 27(2):590
Mar 1968 442.9 F31P
Alcohol dehydrogenase, Biochemistry, Drosophila, Electrophoresis, Insect physiology, Naphthaleneacetic acid dehydrogenase, Spectrophotometry.

17138-68
NOTES ON THE BIOLOGY OF SOME SHORT-HORNED GRASSHOPPERS FROM EASTERN NIGERIA (ORTHOPTERA: ACRIDOIDEA).
M L Jerath
Roy Entomol Soc London Proc Ser A Gen Entomol 43(1-3):27-38
03 May 1968 420 L84PA
Grasshoppers, Insect behavior, Insect biology, Insect taxonomy, Metamorphosis, Plant pests.

Abstract: The ovarian stages found in females of these species are recorded.

17139-68
THE ULTRASTRUCTURE OF THE LARVAL OCELLI IN THE MOSQUITO, AEDES AEGYPTI, AS AFFECTED BY A VITAMIN A DEFICIENCY.
M A Jolie A J Pappelis
Diss Abstr Sect B 28(11):4425B
May 1968 Z5055.U49D53
Aedes aegypti, Carotenes, Deficiency diseases, Diet, Electron microscopes, Insect rearing, Larvae, Sterilization, Vitamin a.

17140-68
ULTRASTRUCTURAL CHARACTERS OF ACTIVE AND INACTIVE CORPORA ALLATA IN LOCUSTA MIGRATORIA. (FR)
L Jolly A Porte A Girardic
Acad Sci Compt Rend Ser D Sci Nat 265(21):1633-1635
20 Nov 1967 505 P21
Biochemistry, Corpora allata, Glands (insects), Insect histology, Insect physiology, Locusta migratoria, Secretion.

17141-68
THE EFFECTS OF VARIOUS OXYGEN TENSIONS ON EMBRYOGENY AND LARVAL RESPONSES OF AEDES AEGYPTI.
C L Judson H A N Gojrati
Entomol Exp Appl 10(2):181-188
1967 421 EN895
Aedes aegypti, Embryology, Insect eggs, Insect morphology, Larvae, Oxygen, Tension, Time, Water.

17142-68
REMARKS ON BLACK WIDOW SPIDERS, WITH AN ACCOUNT OF SOME ANOMALIES.
B J Kaston
Entomol News (philadelphia) 79(5):113-124 REF
May 1968 421 EN88
Insect behavior, Insect biology, Insect morphology, Latrodectus mactans.

17143-68
STUDIES ON THE OBSERVATION OF THE RICE STEM BORER ABOUT THE RELATION BETWEEN THE WEIGHT AND THE GROWTH OF OVERWINTERING LARVAE. (REPORT I). TRANSL. 16792.
H Kibata H Inoue
9 P.
Fungi, Insect ecology, Insect pests, Insect physiology, Larvae, Parasitic insects, Parasitic plants, Plant injuries, Research, Rice, Rice stem borer, Tables (data). Translation from Hokuno. 31(3):1-6, 1964 translated by Kazuko Nagatomi.

340988 0007

17144-68
BIOCHEMICAL ASPECTS OF INSECT METAMORPHOSIS. (JA)
M Kobayashi
Kontyu 35(3):248-258 REF
Sep 1967 421 K833
Biochemistry, Deoxyrihonucleic acid, Insect physiology, Manduca quinquemaculata, Metamorphosis, Rihonucleic acid.

17145-68
HISTOLOGICAL CHANGES PRODUCED BY A RUBY LASER IN NEODIPRION SERTIFER GEOFF.
R W Kobylnyk W H A Wilde
Can J Zool 46(5):947-949 REF
Sep 1968 470 C16D
Insect eggs, Insect histology, Insect morphology, Larvae, Neodiprion sertifer, Ovulation, Pinus sylvestris.

17146-68
ANALYSIS OF THE INJURY OF BROWN PLANTHOPPER ON THE RICE PLANT. TRANSL. I6905.
M Kono S Soma M Ishikawa M Murakami
3 P.
Insect outhreaks, Insect pests, Plant injuries, Rice, Surveys, Tahles (data). Translation from Kanto-Tosan Plant Protect. Proc. Soc. 8:431, 1961 translated hy Dr. Ozawa

17147-68
ANALYSIS OF INSECTICIDAL ACTION OF DIAZINON GRANULES AGAINST GREEN RICE LEAFHOPPERS. TRANSL. I6910.
T Koshihara
5 P.
Biochemistry, Chemical control (insects), Cicadellidae, Diazinon, Insecticides, Rice, Temperature. Translation from Odokon-Chugoku. 8:13-15, 1966. translated hy Hideo Veno.

17148-68
RHIPICEPHALUS SANGUINEUS: MOUTH PARTS. SF991.0K6.
F R Koutz
22 P. OHIO, OHIO STATE UNIVERSITY
1968
Anatomy, Dorsal vessel, Mouth parts, Research. Rhipicephalus sanguineus.

17149-68
CONTROL METHODS FOR INSECTS AND DISEASES BY SPRAYING OF INSECTICIDES. TRANSL. I6909.
T Kozaka
17 P.
Aerial spraying, Biochemistry, Chemical control (insects), Insect control, Insect vectors, Insecticides, Methodology, Plant diseases, Tahles (data). Translation from Agr. Hort. 39(9):1398-1402, 1964 translated by Kenji Nishimura

17150-68
INTERACTIONS BETWEEN A MICROSPORIDIAN PATHOGEN OF THE LAWN-ARMYWORM AND HYMENOPTEROUS PARASITE APANTELES MARGINIVENTRIS.
F M Laigo M Tamasairo
J Invertebrate Pathol 9(4):546-554 REF
Dec 1967 421 J826
Apanteles marginiventris, Insect hehavior, Insect diseases, Nosema, Spodoptera mauritia acronyctoides.

Abstract

17151-68
EFFECT OF FOOD ON THE SUSCEPTIBILITY OF TROGODERMA GRANARIUM EVERTS (DERMESTIDAE: COLEOPTERA) TO INSECTICIDES.
R Lal B S Attri
Indian J Entomol 29(4):329-338 REF
Dec 1967 420 IN23
Food, Insecticide resistant insects, Insecticides, Nutrition, Tribolium castaneum, Trogoderma granarium.

17152-68
BIOLOGY AND CONTROL OF THE ONION THRIPS IN INDIA.
B S Lall L M Singh
J Econ Entomol 61(3):676-679
Jun 1968 421 J822
Biochemistry, Breeding, Chemical control (insects), Fertility, Insect hiology, Insect morphology, Insect pests, Insect rearing, Insecticides, Parathion, Population, Soil series, Spraying, Thrips tahaci.

17153-68
DUAL INFECTIONS OF AEDES AEGYPTI WITH ARBOVIRUS. II. SALIVARY-GLAND DAMAGE BY SEMLIKI FOREST VIRUS IN RELATION TO DUAL INFECTIONS.
K S K Lam I D Marshall
Amer J Trop Med Hyg 17(4):637-644
Jul 1968 448.8 AM326
Aedes aegypti, Arhoviruses, Cells, Histology, Salivary glands (insects), Semliki forest virus, Virus diseases (insects).

17154-68
SEXUAL DIFFERENTIAL IN TIME OF HATCH OF EGGS OF THE GYPSY MOTH.
D E Leonard
J Econ Entomol 61(3):698-700 REF
421 J822
Experimental insects, Hatch, Insect eggs, Insect physiology, Insect rearing, Larvae, Mortality, Porthetria dispar, Sex, Time.

17155-68
DIAPAUSE IN GYPSY MOTH.
D E Leonard
J Econ Entomol 61(3):596-598
Jun 1968 421 J822
Diapause, Hydrochloric acid, Insect eggs, Insect physiology, Insect rearing, Mortality, Ovulation, Porthetria dispar, Temperature.

17156-68
A THREE-YEAR STUDY OF PARASITES OF THE BOLLWORM AND THE TOBACCO BUDWORM IN MISSISSIPPI.
W J Lewis J R Brazzel
J Econ Entomol 61(3):673-676
Jun 1968 421 J822
Biological control (insects), Cardiochiles nigriceps, Heliothis virescens, Heliothis zea, Insect rearing, Larvae, Microplitis croceipes, Parasitic insects, Research.

17157-68
GEL FILTRATION OF INSECT HAEMOLYMPH PROTEINS.
B G Loughton A S West
Can J Zool 46(4):625-628 REF
Jul 1968 470 C16D
Assay, Blood, Electrophoresis, Enzymes, Esterases, Filters, Gels, Insect physiology, Locusta migratoria, Malacosoma americanum, Nymphs, Phenolases, Proteins.

17158-68
LIPID CHANGES DURING THE LIFE CYCLE OF SARCOPHAGA BULLATA.
R H Lumb
Diss Abstr Sect B 28(9):3857B
Mar 1968 Z5055.U49D53
Biochemistry, Chromatography, Glycerides, Insect physiology, Larvae, Oleic acid, Palmitic acid, Phospholipids, Sarcophaga hullata.

17159-68
THE DIFFERING EFFECTIVENESS OF PURIFIED AND NONPURIFIED SUSPENSIONS OF THE NUCLEAR-POLYHEDROSIS VIRUS OF PORTHETRIA DISPAR.
A Magnoler
J Invertebrate Pathol 11(2):326-328
Aug 1968 421 J826
Heliothis zea, Insect control, Laboratories, Larvae, Mortality, Polyhedroses, Population statistics, Porthetria dispar, Quercus suher, Research, Toxicology, Trichoplusia ni, Virus diseases (insects). The article is a note

17160-68
DEGRADATION OF INSECTICIDES BY ESTERASES OF THE AMERICAN COCKROACH.
F Matsumura K Sakai
J Econ Entomol 61(3):598-605 REF
Jun 1968 421 J822
Agar, Alpha-naphthyl acetate, Carbamates, Electrophoresis, Esterases, Hydrolysis, Insecticides, Organic compounds, Periplaneta americana, Phosphates, Starches.

17161-68
THE NATURAL HISTORY OF THREE OAK-FEEDING TORTRICIDS: PTYCHOLOMA LECHEANA (L.), PANDEMIS CERASANA (HB.) AND BATODES ANGUSTIORANA (HAW.).
W Matthet
Entomologist (london) 100(1248):115-120 REF
May 1967 421 EN8
Batodes angustiorana, Forest insects, Insect biology, Pandemis cerasana, Parasitic insects, Ptycholoma lecheana, Quercus.

17162-68
CARBAMATE CROSS RESISTANCE IN A CARBARYL-RESISTANT STRAIN OF THE GERMAN COCKROACH.
I C McDonald D G Cochran
J Econ Entomol 61(3):670-673 REF
Jun 1968 421 J822
Blattella germanica, Carbamates, Carharyl, Immunity, Insecticide application, Insecticides, Mortality, Nymphs, Therapeutics. Insecticides used were: Baygon, UC-10854, dimetilan, isolan, UC-21149, matacil, MC-A-600.

17163-68
DIEL PERIODICITY IN SPERMATOPHORE FORMATION IN THE HOUSE CRICKET, ACHETA DOMESTICUS (L.).
J E McFarlane
46(4):695-698
Jul 1968
Acheta domesticus, Experimental insects, Insect rearing, Photoperiodism, Reproduction, Research, Spermatophores, Stridulation, Temperature.

17164-68
MOSQUITO CONTROL AGENTS DERIVED FROM PETROLEUM HYDROCARBONS. II. LABORATORY EVALUATION OF A NEW PETROLEUM DERIVATIVE, FLIT MLO.
D W Micks G V Chamhers J Jennings K Barnes
J Econ Entomol 61(3):647-650
Jun 1968 421 J822
Aedes aegypti, Anopheles quadrimaculatus, Biochemistry, Chemical control (insects), Culex pipiens quinquefasciatus, Experimental insects, Hydrocarhons, Insecticides, Mortality, Petroleum, Temperature.

17165-68
COMMUNITY STUDIES ON HYMENOPTERA FOUND ON BRASSICA NAPUS C. V. CYNIPOIDS (CYNIPOIDEA). (POL)
B Miczulski
Pol Pismo Entomol 37(4):787-796 REF
1967 421 P76
Cynipidae, Hymenoptera, Insect hehavior, Parasitism, Rape, Research. English summary

17166-68
A DEVICE FOR OBTAINING FLIES OF KNOWN AGE.
T A Miller R E Treece
Entomol Soc Amer Ann 61(2):548
15 Mar 1968 420 EN82
Diptera, Insect rearing equipment, Musca autumnalis.

17167-68
PRESENT STATE OF INSECT TISSUE CULTURE. TRANSL. I6704.
J Mitsuhashi
32 P. REF
1966

Anatomy, Bacteriophages, Culture media, Insects, Morphology, Research, Tissue culture. Translation from Shokubutsu boeki, 18(9-10):359-366. translated by G. Nishimura

17168-68
PUPATION OF WINTERING LARVAE OF THE RICE STEM BORER, CHILO SUPPRESSALIS WALKER, REARED AT 25 C. TRANSL. 16919.
K Miyahara B Hashizume
7 P.
Chilo suppressalis, Insect biology, Insect pests, Insect rearing, Larvae, Pupae, Rice, Temperature. Translation from Assoc. Plant Protect. Kyushu Proc. 8: 1-3, 1962 translated by Kenji Nishimurm

17169-68
EXPERIMENTAL PREDICTION OF OCCURRENCE OF LEAFHOPPER. 5. OVARY MATURING CONDITION AND EGG-LAYING IN THE WEEDS OF LEAFHOPPER HIBERNATED IMAGO. TRANSL. 16901.
K Miyahara
5 P.
Cicadellidae, Environment, Hibernation, Light traps, Ovaries, Physiology, Research, Weeds. Translation from Kyushu Agri Res. 25:168-169 translated hy Hideo Ueno

17170-68
EFFECT OF COMMERCIAL PROTEINS ON HOUSE FLY REPRODUCTION.
R E Monroe N J Lamh
Entomol Soc Amer Ann 61(2):456-459
15 Mar 1968 420 EN82
Insect nutrition, Musca domestica, Proteins, Reproduction.

17171-68
UPTAKE AND PERSISTENCE OF METEPA AND HEMPA IN THE HOUSE FLY.
P B Morgan M C Bowman G C LaBrecquc
J Econ Entomol 61(3):805-808
Jun 1968 421 J822
Absorption, Baits, Biochemistry, Chemosterilants, Feed, Hempa, Insect control, Metepa, Musca domestica, Time.

17172-68
MORPHOLOGY, BIOLOGY, AND PHYTOPATHOLOGICAL SIGNIFICANCE OF THE GENUS APPELIA C.B (APHIDOIDEA: APHIDIDAE). (GE)
M Mostafawy
Z Angew Zool 54(4):439-515 REF
1967 449.8 Z36
Aphididae, Appelia, Biology, Insect morphology, Phytopathology.

17173-68
EFFECTS OF SEVERAL INSECTICIDES ON BLACK RICE BUG. TRANSL. 16917.
M Murakami
4 P.
Biochemistry, Chemical control (insects), Chlorine, Insect pests, Insecticides, Plant injuries, Research, Rice. Translation from Kanto-Tosan Plant Protection Socicty. proceedings. 11: 1964 translated by Ayako Iimura.

17174-68
BROOD REARING BY CAGED HONEY BEES IN RESPONSE TO INOSITOL AND CERTAIN POLLEN FRACTIONS IN THEIR DIET.
J L Nation F A Rohinson
Entomol Soc Amer Ann 61(2):514-517
15 Mar 1968 420 EN82
Apis mellifera, Insect nutrition, Insect rearing, Metamorphosis, Pollen.

17175-68
ACTIVE TRANSPORT BY THE CECROPIA MIDGUT. IV. SPECIFICITY OF THE TRANSPORT MECHANISM FOR POTASSIUM.
S Nedergaard W R Harvey
J Exp Biol 48(1):13-24
Feb 1968 442.8 B77
Biological transport, Hyalophora cecropia, Intestines, Ions, Larvae, Potassium, Ruhidium.

17176-68
SYMBIOSIS; EFFECTS OF A MUTUALISTIC FUNGUS UPON THE GROWTH AND REPRODUCTION OF XYLEBORUS-FERRUGINEUS.
D M Norris J K Baker
Science 156(3778):1120
27 May 1967 470 SCI2
Bacteria, Diet, Fungi, Injections, Insect morphology, Sterility, Symhiosis, Xyleborus ferrugineus.

17177-68
EFFECTS OF SUB-LETHAL HIGH TEMPERATURE ON AN INSECT, RHODNIUS PROLIXUS (STAL.). III. METABOLIC CHANGES AND THEIR BEARING ON THE CESSATION AND DELAY OF MOULTING.
A Y K Okasha
J Exp Biol 48(3):475-486 REF
Jun 1968 442.8 B77
Amino acids, Blood, Fceding, Insect physiology, Larvae, Lethal factors, Metabolism, Molting (insects), Rhodnius prolixus, Temperaturc.

17178-68
EFFECTS OF SUB-LETHAL HIGH TEMPERATURE ON AN INSECT, RHODNIUS PROLIXUS (STAL). I. INDUCTION OF DELAYED MOULTING AND DEFECTS.
A Y K Okasha
J Exp Biol 48(3):455-463 REF
Jun 1968 442.8 B77
Feeding, Insect physiology, Larvae, Lethal factors, Rhodnius prolixus, Temperature.

17179-68
EFFECTS OF SUB-LETHAL HIGH TEMPERATURE ON AN INSECT, RHODNIUS PROLIXUS (STAL). II. MECHANISM OF CESSATION AND DELAY OF MOULTING.
A Y K Okasha
J Exp Biol 48(3):465-473 REF
Jun 1968 442.8 B77
Cells, Feeding, Insect physiology, Larvae, Lethal factors, Rhodnius prolixus, Temperature.

17180-68
A SEX PHEROMONE IN THE PACIFIC COAST WIREWORM.
J A Onsager L M McDonough D A George
J Econ Entomol 61(3):691-693
Jun 1968 421 J822
Biochemistry, Biological assay, Carboxylic acids, Ethers, Limonius canus, Methylene chloride, Pheromones, Sex.

17181-68
REPELLENTS. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.
R R Painter
267-285 REF NEW YORK, ACADEMIC PRESS
1967
Chromatography, Ecology, Insect repellents, Olfactometers, Research.

17182-68
VIRUSLIKE PARTICLES FROM HYALOPHORA CECROPIA LARVAE SUCCUMBING FROM AN INTESTINAL DISEASE.
D Peters G B Staal
J Invertebrate Pathol 11(2):330-333
Aug 1968 421 J826
Centrifugation, Electron microscopy, Extracts, Hyalophora cecropia, Insect cagcs, Insect diseases, Intestines, Laboratories, Larvae, Mortality, Prunus serotina, Sedimentation, Spectrophotometry, Temperature, Ultraviolet rays.

17183-68
CONTRIBUTION TO THE STUDY OF REPRODUCTION AND THE EVOLUTIONARY CYCLE OF GLOSSINA MORSITANS WEST. (SP)
R C Pinhao
Inst Med Trop An 23(3-4):311-450 REF
Jul 1966 448.9 L68
Evolution, Glossina morsitans, Insect physiology, Reproduction, Research.

17184-68
SYNTHESIS AND DISTRIBUTION OF RNA IN CECROPIA OOCYTE DIFFERENTIATION.
S B Pollack
Diss Abstr Sect B 28(10):4354B
Apr 1968 Z5055.U49D53
Autoradiography, Biochemistry, Extracts, Glycogen, Histochemistry, Hyalophora cecropia, Insect eggs, Insect physiology, Perchloric acid, Ribonucleic acid, Uridine.

17185-68
THE EFFECTS OF GAMMA RADIATION ON THE NAVEL ORANGEWORM, PARAMYELOIS TRANSITELLA (WALKER) (LEPIDOPTERA: PHYCITIDAE) AND THE FEASIBILITY OF CONTROL WITH IRRADIATED ADULTS.
F I Proshold
Diss Abstr Sect B 28(10):4168B
Apr 1968 Z5055.U49D53
Dosage, Gamma rays, Greenhouse culture, Insect cages, Insect control, Insect eggs, Insect physiology, Paramyelois transitella, Research, Sterilization.

17186-68
ROLE OF THE HOST PLANT CONCERNING THE SEXUAL ATTRACTIVENESS OF ACROLEPIA ASSECTELLA ZELLER. (LEP. PLUTELLIDAE). (FR)
R Rahn
Acad Sci Conpt Rend Ser D Sci Nat 266(19):2004-2006
06 May 1968 505 P21
Acrolepia assectella, Insect ecology, Insect eggs, Insect physiology, Parasitic insects, Plutellidae, Reproduction, Sex attractants.

17187-68
RELATIVE TOXICITY OF INSECTICIDES TO ADULT LOCUSTA MIGRATORIA LINNAEUS.
B K Rai
Indian J Entomol 29(4):317-324
Dec 1967 420 IN23
Dusting, Injections, Insecticides, Locusta migratoria, Poisons, Spraying, Toxicology.

17188-68
FURTHER NOTES ON AYPERA POSTICA (GYLLENHAL) AND ITS NATURAL ENEMIES.
B R S Rao B Parshad A Ram R P Singh M L Srivastava
Indian J Entomol 29(4):370-379
Dec 1967 420 IN23
Alfalfa, Feed, Hypera postica, Natural control (insects), White sweetclover.

17189-68
THE ABUNDANCE OF INSECTS: INTRODUCTION.
O W Richards T R E Southwood
Roy Entomol Soc London Symp 4:1-7 REF
1968 420 R81
Ecology, Environment, Insect migration, Insects, Population statistics, Research.

17190-68
FATTY ACIDS IN HONEY BEES (APIS MELLIFERA) INFECTED WITH THE PROTOZOAN NOSEMA APIS.
M D Roberts
J Invertebrate Pathol 11(2):234-236
Aug 1968 421 J826
Apis mellifera, Chromatography, Extracts, Fatty acids, Lipids, Nosema apis.

17191-68
AMINO ACID SYNTHESIS FROM GLUCOSE-U-14 C IN ARGYROTAENIA VELUTINANA (LEPIDOPTERA: TORTRICIDAE) LARVAE.
G C Rock K W King
J Nutr 95(3):369-373 REF
Jul 1968 389.8 J82

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Amino acids, Argyrotaenia velutinana, Biochemistry, Carbon isotopes, Chemicals, Diet, Glucose compounds, Insects, Larvae.

17192-68
THE OCCURRENCE OF THE FUNGUS ENTOMOPHTHORA GRYLLI FRESENIUS ON LOCUSTS AND GRASSHOPPERS IN THAILAND.
J Roffey
J Invertebrate Pathol 11(2):237-241 REF
Aug 1968 421 J826
Acrididae, Biological control (insects), Entomophthora, Fungus diseases (insects), Grasshoppers, Lethal factors, Weather.

17193-68
PHOTOPERIOD IN RELATION TO DIAPAUSE IN HYPERA POSTICA FROM CALIFORNIA.
S S Rosenthal C S Koehler
Entomol Soc Amer Ann 61(2):531-534 REF
15 Mar 1968 420 EN82
Hypera postica, Insect rearing, Metamorphosis, Photoperiodism.

17194-68
BIOLOGY OF THE MUSTARD APHID, LIPAPHIS ERYSIMI, IN INDIA.
G Rout B Senapati
Entomol Soc Amer Ann 61(2):259-261
15 Mar 1968 420 EN82
Aphididae, Hyadaphis pseudobrassicae, Insect biology, Insect morphology, Insect pests, Lipaphis erysimi.

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OSCILLATORY MECHANISM IN FIBRILLAR INSECT FLIGHT MUSCLE.
J C Ruegg
Experientia 24(6):529-536 REF
15 Jun 1968 475 EX7
Insect biochemistry, Insect flight, Insect physiology, Muscles. German and English summary
Abstract

17196-68
LOSS OF HOSTPLANT SPECIFICITY BY MANDUCA SEXTA AFTER REARING ON AN ARTIFICIAL DIET.
L M Schoonhoven
Entomol Exp Appl 10(2):270-272
555555421 EN895
Cabbage, Diet, Insect morphology, Insect physiology, Insect rearing, Manduca sexta, Plantago, Taraxacum, Tobacco, Tomatoes.

17197-68
THE STRUCTURE OF A PREGENITAL ABDOMINAL GANGLION OF THE DESERT LOCUST SCHISTOCERCA GREGARIA (FORSKAL).
W D Seahrook
Can J Zool 46(5):965-980 REF
Sep 1968 470 C16D
Abdomen, Cells, Insect anatomy, Insect physiology, Nervous system, Neurology, Periplaneta, Schistocerca gregaria.

17198-68
PHEROMONES. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.
H H Shorey L K Gaston
241-265 REF NEW YORK, ACADEMIC PRESS
1967
Biology, Chemistry, Environment, Insect behavior, Insect control, Pheromones, Population statistics.

17199-68
WINTER ACTIVITIES OF VESPULA MACULIFRONS.
R P Simon A N Benton
Entomol Soc Amer Ann 61(2):542-544
15 Mar 1968 420 EN82
Insect behavior, Vespidae, Vespula maculifrons.

17200-68
CHARACTERIZATION OF CARDIO-ACCELERATORS FROM NERVES AND TISSUES ASSOCIATED WITH THE HEART OF THE COCKROACH, PERIPLANETA AMERICANA LINNE.
N A Smith
Diss Abstr Sect B 28(10):4357B
Apr 1968 Z5055.U49D53
Centrifugation, Dialysis, Enzymes, Heart, Heat, Nerves, Periplaneta americana, Research, Sucrose, Tissues.

17201-68
URATE ACCUMULATION AND LIFE SPAN IN TWO SPECIES OF HABROBRACON.
R E Smith
Diss Abstr Sect B 28(10):4358B
Apr 1968 Z5055.U49D53
Bracon hebetor, Braconidae, Diet, Fertility, Insect morphology, Insect physiology, Irradiation, Temperature, Urate oxidase.

17202-68
LACQUERS CONTAINING DIELDRIN, MALATHION, OR DIAZINON AS CONTROLS FOR GERMAN COCKROACH.
B J Smittle G S Burden
J Econ Entomol 61(3):702-705
Jun 1968 421 J822
Biochemistry, Blattella germanica, Chemical control (insects), Diazinon, Dieldrin, Insecticide application, Insecticide residues, Insecticides, Malathion, Plywood, Time.

17203-68
MUTATIONS AS POSSIBLE AIDS FOR ESTABLISHING GENITALIC HOMOLOGIES IN THE SEXES IN TRIBOLIUM CASTANEUM.
A Sokoloff M A Hoy
Entomol Soc Amer Ann 61(2):550-553 REF
15 Mar 1968 420 EN82
Insect morphology, Insect mutation, Insect taxonomy, Reproductive organs, Tribolium castaneum.

17204-68
EVIDENCE FOR PHONORECPTION IN THE LUBBER GRASSHOPPER ROMALEA MICROPTERA).
S L Sparks H D Patton
Fed Amer Soc Exp Biol Fed Proc 27(2):583
Mar 1968 442.9 F31P
Insect behavior, Insect physiology, Nervous system, Research, Romalea microptera.

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DRIED TORULA YEAST AS A SUBSTITUTE FOR BREWER'S YEAST IN THE LARVAL REARING MEDIUM FOR THE MEXICAN FRUIT FLY.
L M Spishakoff J G Hernandez Davila
J Econ Entomol 61(3):859-860
Jun 1968 421 J822
Anastrepha ludens, Carrots, Culture media, Insect rearing, Larvae, Yeasts.

17206-68
THE PHYSIOLOGY OF LABELLAR ELECTROLYTE RECEPTORS OF THE BLOWFLY, PHORMIA REGINA.
R A Steinhardt
Diss Abstr Sect B 28(9):3932B
Mar 1968 Z5055.U49D53
Chemoreceptors, Electrophysiology, Hydrocarbons, Insect behavior, Phormia regina, Salivary glands (insects).

17207-68
DISTRIBUTION OF THE NEMATODE HETEROTYLENCHUS AUTUMNALIS, A PARASITE OF THE FACE FLY, IN NEW ENGLAND WITH NOTES ON ITS ORIGIN.
J G Stoffoland
J Econ Entomol 61(3):861-863
Jun 1968 421 J822
Heterotylenchus autumnalis, Musca autumnalis, Nematodes, Parasitism, Zoogeography.

17208-68
INCLUSIONS IN ADULTS OF THE EUROPEAN PINE SAWFLY, NEODIPRION SERTIFER (GEOFF.).
C R Sullivan D R Wallace
Can J Zool 46(5):959-963 REF
Sep 1968 470 C16D
Experimental insects, Inclusion bodies, Insect diseases, Insect rearing, Larvae, Neodiprion sertifer, Pinus resinosa, Temperature.

17209-68
VARIATIONS IN THE PHOTOPERIODIC RESPONSE OF NEODIPRION SERTIFER.
C R Sullivan D R Wallace
Can J Zool 46(5):1082-1083
Sep 1968 470 C16D
Experimental insects, Insect rearing, Neodiprion sertifer, Photoperiodism, Population, Reproduction, Research, Temperature.

17210-68
RELATIVE TOXICITY OF SOME INSECTICIDES AS CONTACT POISONS TO THE LARVAE OF EARIAS FABIA STOLL.
T P S Teotia P M Nigam
Indian J Entomol 29(4):391-392
Dec 1967 420 IN23
Chemical control (insects), Cotton, Earias fabia, Insecticides, Larvae, Okra, Poisons, Toxicology.

17211-68
TRANS-ALDRIN GLYCOL AS A METABOLITE OF DIELDRIN IN LARVAE OF THE SOUTHERN HOUSE MOSQUITO.
A D Tomlin
J Econ Entomol 61(3):855-857
Jun 1968 421 J822
Aldrin, Biochemistry, Chemical control (insects), Culex pipiens quinquefasciatus, Dieldrin, Glycols, Insecticides, Larvae, Metaholites.

17212-68
AN ANATOMICAL AND HISTOLOGICAL STUDY OF THE MALE MYRMICINE ANT, MYRMICA RUBRA, L. (HYMENOPTERA: FORMICIDAE).
W B Trakimas
Diss Abstr Sect B 28(10):4360B
Apr 1968 Z5055.U49D53
Gastrointestinal system, Insect anatomy, Insect histology, Insect physiology, Myrmica rubra, Reproductive organs, Research, Salivary glands (insects).

17213-68
HAEMOLYMPH ESTERASES IN THE FEMALE LARVAL HONEYBEE, APIS MELLIFERA L., DURING CASTE DEVELOPMENT.
R K Tripathi S E Dixon
Can J Zool 46(5):1013-1017 REF
Sep 1968 470 C16D
Apis mellifera, Electrophoresis, Enzymes, Esterases, Hemolymph, Hemolysis, Insect morphology, Larvae, Polymorphism.

17214-68
MERMITHID PARASITES OF THE MOSQUITO AEDES VEXANS MEIGEN IN BRITISH COLUMBIA.
M Trpis W O Haufe J A Shemanchuk
Can J Zool 46(5):1077-1079
Sep 1968 470 C16D
Aedes vexans, Biological control (insects), Experimental insects, Feeding, Morphology, Mortality, Nematodes, Parasitism, Research, Temperature.

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POPULATION SAMPLE COUNTS ON SPIDER MITES.
M Van De Vrie
Entomophaga Mem Hors Ser 3:55
1967 421 EN835M
Apples, Leaves, Panonychus ulmi, Population statistics, Predaceous insects, Tetranychidae.

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POPULATION MODELS FOR THE WINTER MOTH.

G C Varley G R Gradwell
Roy Entomol Soc London Symp 4:132-142 REF
1968 420 R81
Biological control (insects), Ecology, Mortality, Operophtera brumata, Population statistics, Research.

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UNDULATORY LOCOMOTION OF THE PLANT PARASITIC NEMATODE MELOIDOGYNE JAVANICA.
H R Wallace
Parasitology 58(2):377-391 REF
May 1968 448.8 P21
Eggs, Environment, Insect physiology, Larvae, Meloidogyne javanica, Research.

17218-68
PRESENT STATUS OF BIOLOGICAL CONTROL OF THE PEAR PSYLLA IN SOUTHERN OREGON.
P H Westigard L G Gentner D W Berry
J Econ Entomol 61(3):740-743
Jun 1968 421 J822
Biological control (insects), Fruit, Insect eggs, Insect pests, Mortality, Nymphs, Parasitic insects, Pears, Plant injuries, Psylla pyricola, Research, Trechnites insidiosus.

17219-68
LARGE SCALE GRANULAR PARATHION PRETREATMENT OF A DUCK CLUB AREA IN THE COLUSA MOSQUITO ABATEMENT DISTRICT.
K G Whitesell
Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING:14-15
1966 420 UT1
Aedes melanimon, Aerial spraying, Chemical control (insects), Laboratories, Parathion, Research, Weather.

17220-68
SOME ASPECTS OF MOSQUITO CONTROL IN CALIFORNIA.
J D Willis
Utah Mosquito Abatement Ass Proc 18-19 ANNU. MEETING:13-14
1966 420 UT1
Aerial spraying, Culex pipiens pipiens, Culicidae, Histology, Insect control, Insecticides, Population statistics, Research, Weather.

17221-68
REDUCTION OF TABANID POPULATIONS ON CATTLE WITH STICKY TRAPS BAITED WITH DRY ICE.
B H Wilson
J Econ Entomol 61(3):827-829
Jun 1968 421 J822
Baits, Cattle, Dry ice, Insect control, Insect pests, Insect traps, Population, Tabanidae, Temperature, Weather.

17222-68
INSECT ABUNDANCE: PROSPECT.
F Wilson
Roy Entomol Soc London Symp 4:143-158 REF
1968 420 R81
Environment, Insect outbreaks, Insects, Laboratories, Population statistics, Research.

17223-68
THE INTERNAL MORPHOLOGY OF THE REPRODUCTIVE SYSTEMS OF SOME PSOCID SPECIES.
S K Wong I W B Thornton
Roy Entomol Soc London Proc Ser A Gen Entomol 43(1-3):1-12 REF
03 May 1968 420 L84PA
Insect morphology, Psocoptera, Reproductive organs.

17224-68
LABORATORY STUDIES WITH THE MOSQUITO IRIDESCENT VIRUS (MIV).
D B Woodard H C Chapman
J Invertebrate Pathol 11(2):296-301
Aug 1968 421 J826
Aedes sollicitans, Aedes taeniorhynchus, Culicidae, Insect rearing, Laboratories, Larvae, Mosquito iridescent virus.

17225-68
BIOLOGIES OF THREE SPECIES OF ALYDUS IN WISCONSIN.
T R Yonke J T Medler
Entomol Soc Amer Ann 61(2):526-531 REF
15 Mar 1968 420 EN82
Alydus conspersus, Alydus curinus, Alydus pilosulus, Insect biology, Insect morphology.

GENETICS

17226-68
INHERITED MELANISM IN THE LARGE MILKWEED BUG, ONCOPELTUS FASCIATUS (HETEROPTERA: LYGAEIDAE).
C E Abbott
Entomol Soc Amer Ann 61(2):542
15 Mar 1968 420 EN82
Heredity, Insect genetics, Melanosis, Oncopeltus fasciatus.

17227-68
THE DEVELOPMENTAL GENETICS OF THE EYELESS-DOMINANT MUTATION IN DROSOPHILA MELANOGASTER (MEIG.).
R Arking
Diss Abstr Sect B 28(10):4003B
Apr 1968 Z5055.U49D53
Blindness, Chromosomes, Drosophila melanogaster, Eyes, Insect genetics, Insect morphology, Larvae, Mutation, Sex.

17228-68
TEMPERATURE-SENSITIVE MUTATIONS IN DROSOPHILA MELANOGASTER. II. FREQUENCY AMONG SECOND CHROMOSOME RECESSIVE LETHALS INDUCED BY ETHYL METHANESULFONATE.
D Baille D T Suzuki M Tarasoff
Can J Genet Cytol 10(2):412-420 REF
Jun 1968 443.8 C16
Chromosomes, Drosophila melanogaster, Ethyl methanesulfonate, Insect genetics, Lethal factor, Mutation, Temperature.

17229-68
POLYMORPHISM IN THE AUSTRALIAN ACRIDIDAE. I. INHERITANCE OF COLOUR PATTERNS IN THE PLAGUE LOCUST, CHORTOICETES TERMINIFERA.
O R Byrne
Heredity 22(4):561-568 REF
Nov 1967 443.8 H42
Acrididae, Chortoicetes terminifera, Color, Inheritance, Insect genetics, Polymorphism.

17230-68
THE INHERITANCE OF FERTILITY IN DROSOPHILA MELANOGASTER.
W Chapco
Diss Abstr Sect B 28(10):4004B-4005B
Apr 1968 Z5055.U49D53
Breeding, Chromosomes, Drosophila melanogaster, Fertility, Genes, Heredity, Insect eggs, Insect genetics, Mutation, Research.

17231-68
TRANSFORMATION OF INSEMINATED FEMALES OF APHYTIS LINGNANENSIS INTO FACTITIOUS VIRGINS BY LOW-TEMPERATURE TREATMENT.
P DeBach S V Rao
Entomol Soc Amer Ann 61(2):332-337 REF
15 Mar 1968 420 EN82
Aphytis lingnanensis, Artificial insemination, Insect rearing, Sex behavior, Sterilization, Temperature.

17232-68
THE EFFECT OF LINKAGE ON GENETIC VARIANCE.
I R Franklin
Diss Abstr Sect B 28(10):4006B
Apr 1968 Z5055.U49D53
Breeding, Chromosomes, Genes, Insect genetics, Population, Tribolium castaneum, Variance analysis.

17233-68
A COMPARATIVE STUDY OF INDUCED INCREASES IN PROXIMAL RECOMBINATION IN DROSOPHILA MELANOGASTER FEMALES.
S Hayashi D T Suzuki
Can J Genet Cytol 10(2):276-282 REF
Jun 1968 443.8 C16
Actinomycin d, Breeding, Chromosomes, Drosophila melanogaster, Insect genetics, Radiation, Research, Temperature.

17234-68
RATES OF SPONTANEOUS MUTATION IN CERTAIN GENES OF AN ARRHENOTOKOUS MITE, TETRANYCHUS PACIFICUS.
W Helle A Q Van Zon
Entomol Exp Appl 10(2):189-193
1967 421 EN895
Genes, Insect genetics, Mites, Mutation, Pigmentation, Tetranychus pacificus.

17235-68
A STUDY OF RADIATION-INDUCED DOMINANT LETHALS AND TRANSLOCATIONS IN DROSOPHILA VIRILIS IN AN OXYGEN ATMOSPHERE AT 4 C.
G E Omundson
Diss Abstr Sect B 28(10):4353B
Apr 1968 Z5055.U49D53
Atmosphere, Cold, Drosophila virilis, Insect eggs, Insect genetics, Irradiation, Lethal factor, Oxygen, Reproduction, Sex, Temperature, Therapeutics.

17236-68
A STUDY OF ISOENZYME POLYMORPHISM IN EXPERIMENTAL POPULATIONS OF DROSOPHILIA MELANOGASTER.
M Rasmuson B Rasmuson L R Nilson
Hereditas 57(1-2):263-274
1967 442.8 H42
Drosophilia melanogaster, Enzymes, Experimental insects, Heterogenesis, Insect genetics, Insect rearing, Polymorphism.

17237-68
EFFECT OF INSECTICIDES AND INSECTICIDE TREATED COCKROACH BLOOD ON THE HEART BEAT OF PERIPLANETA AMERICANA L.
P Sudershan M B Naidu
Indian J Exp Biol 5(4):215-218 REF
Oct 1967 442.8 IN2
Blattidae, Heart rate, Insecticide application, Insecticides, Malathion, Periplaneta americana, Pyrethrum, Ventral nerve cord.

17238-68
A COMPARISON OF BANDING PATTERNS IN SALIVARY GLAND CHROMOSOMES OF TWO SPECIES OF DROSOPHILA.
F M A Van Breugel A Ray H Gloor
Genetica 39(2):165-192 REF
1968 442.8 G282
Chromosomes, Cytogenetics, Drosophila hydei, Drosophila melanogaster, Insect genetics, Salivary glands (insects).
Abstract

MEDICAL ENTOMOLOGY

17239-68
SUMMARY OF RECENT ABSTRACTS. IV. TRYPANOSOMIASIS. AFRICAN TRYPANOSOMIASIS. HUMAN.
Anonymous
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May 1967 448.8 T752
Epidemiology, Glossina, Human diseases, Insect vectors, Reports, Trypanosomiasis.

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17240-68
SUMMARY OF RECENT ABSTRACTS. VII. RICKETTSIAL DISEASES.
Trop Dis Bull 65(8):961-968
Aug 1968 448.8 T752
Anoplura, Human diseases, Insect vectors, Mites, Q fever, Rickettsial diseases, Siphonaptera, Typhus. Summary compiled from abstracts of Tropical Diseases Bulletin, 1967, v. 64.

17241-68
KEY TO RAPID IDENTIFICATION OF ANTROPOPHILIC PHLEBOTOMUS IN THE CUTANEOUS AREA OF LEISHMANIASIS IN MEXICO. (SP)
A M De Biagi
Rev Invest Salud Publica 26(4):367-373
Oct 1966 449.9 M572
Ecology, Insect identification, Insect vectors, Leishmaniasis, Phlebotomus, Skin. English summary

17242-68
APPLICATION OF IMMUNODIFFUSION METHODS TO THE ANTIGENIC ANALYSIS OF DENGUE VIRUSES.
A N Ibrahim
Diss Abstr Sect B 28(10):4216B
Apr 1968 Z5055.U49D53
Aedes aegypti, Antigens, Assay, Dengue (man), Electrophoresis, Immunization, Serological tests, Serum, Viruses.

17243-68
DEVELOPMENT OF STUDIES IN CZECHOSLOVAKIA ON NATURAL FOCI OF DISEASES.(JPRS 44,874) TRANSL. 16897.
B Rositskiy
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History, Human diseases, Insect vectors, Wildlife. Translation from Parazitologiya 5:378-389, 1967 issued by CFSTI.

17244-68
TREATMENT AND CONTROL OF SCABIES, LICE AND FLEA INFESTATION OF MAN. (SP)
H Schenone H Reyes
Bol Chileno Parasitol 22(2):56-59 REF
Apr 1967 436.9 C43
Chemical control (insects), Epidemiology, Humans, Insect biology, Pediculus humanus, Phthirus pubis, Sarcoptes scahiei, Siphonaptera. English abstract

Abstract: Life-cycle, bionomics and epidemiological characteristics of ectoparasites are the main factors in their treatment and control. Sarcoptes scabiei, Pediculus humanus and Phthirus pubis are highly specific to man. They are permanent ectoparasites through their complete life-cycle. Therapeutic and preventive measures must be carried out on the infested person. Fleas are ectoparasites only during the blood meal, are highly non-specific in host selection, and develop in the environment. Thus, flea control must he carried out in their environmental breeding or shelter places, and the measures on the human or animals hosts are only complementary. The principal methods of treatment and control are described.

17245-68
FIVE YEARS' EXPERIENCE MAINTAINING COLONIES OF PEDICULUS HUMANUS IN THE LABORATORY. (SP)
G Varela
Rev Invest Salud Publica 27(4):317-320
Oct 1967 449.9 M572
Experimental insects, Insect rearing, Insect vectors, Laboratories, Pediculus humanus, Rabbits, Research, Rickettsial diseases. English summary

17246-68
GENETICS OF INSECT VECTORS OF DISEASE. RA639.0W7.
J W Wright R Pal
794 P. NEW YORK, ELSEVIER PUBLISHING COMPANY
1967
Aedes aegypti, Anopheles, Arthropoda, Blattidae, Breeding, Culex pipiens, Cytology, Immunity, Insect evolution, Insect genetics, Insect physiology, Insect vectors, Insecticides, Musca domestica, Population, Public health, Research, Triatoma.

CROP PRODUCTION

17247-68
PROCEEDINGS INTERNATIONAL SYMPOSIUM ON PLANT DISEASES AND PESTS IN A DEVELOPING EUROPE.
Anonymous
Neth J Plant Pathol 73(SUP-1), 172 P. REF
1967 464.8 T44
Agricultural outlook, International cooperation, Phytopathology, Plant disease control, Plant pest control, Symposia, World agricultural situation.

17248-68
MICROORGANISMS AND THE INORGANIC NUTRITION OF HIGHER PLANTS.
D A Barber
Annu Rev Plant Physiol 19:71-88
1968 450 AN78
Ions, Microorganisms, Plant nutrition, Plant physiology, Soils, Tissues.

17249-68
EFFECT OF B-GROUP VITAMINS AND ETHYL ALCOHOL ON AFLATOXIN PRODUCTION BY ASPERGILLUS ORYZAE.
S C Basappa A Jayarman V Sreenivasamurthy H A B Parpia
Indian J Exp Biol 5(4):262-263
Oct 1967 442.8 IN2
Aflatoxin, Aspergillus oryzae, Ethyl alcohol, Metabolites, Thiamine, Toxins, Vitamins.

17250-68
PHYTOPATHOLOGICAL DEVELOPMENTS IN AN INTEGRATING EUROPE.
B W Bieshhuvel
Neth J Plant Pathol 73(SUP.1):3-12
1967 464.8 T44
Agricultural economics, Agricultural research, International cooperation, Phytopathology, Plant protection, World agricultural situation.

17251-68
AN INHERITANCE STUDY OF TOLERANCE TO ATRAZINE IN A CROSS OF FLAX (LINUM USITATISSIMUM L.).
V E Comstock R N Andersen
Crop Sci 8(4):508-509
Aug 1968 64.8 C883
Atrazine, Corn, Greenhouses, Inheritance, Quantitative analysis, Research.

17252-68
THE BIOLOGY AND ECOLOGY OF SICKLEPOD (CASSIA OBTUSIFOLIA L.).
J M Jr Creel
Diss Abstr Sect B 28(10):3969B
Apr 1968 Z5055.U49D53
Cassia obtusifolia, Cotton, Light, Nutrient solutions (plants), Plant ecology, Plant physiology, Research, Rhizoctonia, Seed germination, Seedlings, Temperature.

17253-68
SOME EFFECTS OF ENVIRONMENTAL AND CHEMICAL TREATMENTS ON GROWTH INDUCTION AND METABOLISM: I. EFFECTS OF LIGHT ON PHOSPHATE AND NUCLEIC ACID METABOLISM IN TOBACCO LEAF DISCS. II. GROWTH INDUCTION AND METABOLISM IN CARROT PHLOEM EXPLANTS.
N Degani
Diss Abstr Sect B 28(10):4263B
Apr 1968 Z5055.U49D53
Biochemistry, Carrots, Culture media, Drug therapy, Indoleacetic acid, Light, Nucleic acids, Oxygen, Phloem, Phosphates, Plant ecology, Plant metaholism, Plant physiology, Plant regulators, Tobacco.

17254-68
DIPLOIDIZATION OF INDUCED TETRAPLOID HYBRIDS OF DACTYLIS GLOMERATA BY MEANS OF X-RAY IRRADIATION.
T E Devine
Diss Abstr Sect B 28(11):4385B
May 1968 Z5055.U49D53
Aschersoniana, Breeding, Chromosomes, Dactylis glomerata, Irradiation, Lusitanica, Plant genetics, Polyploidy, Seedlings, X-rays.

17255-68
SPERMIOGENESIS IN LACCIFER LACCA (KERR) (LACCIFERIDAECOCCOIDEA).
T S S Dikshith
Cytologia 31(3):302-308
Sep 1966 442.8 C99
Cell nucleus, Cells, Chromatin, Chromosomes, Cysts, Cytology, Laccifer lacca, Plant genetics, Plants, Reproduction, Research, Spermatozoa.

17256-68
CERTAIN EFFECTS OF BENZIMIDAZOLE ON YOUNG TOBACCO PLANTS.
J J Dyar
Plant Physiol 43(3):477-478
Mar 1968 450 P692
Benzimidazole, Mottle (tohacco), Plant hormones, Plant physiology, Plant regulators, Potassium, Tobacco.

17257-68
A NOTE ON THE RELATIVE SUSCEPTIBILITY OF SOME GROUNDNUT (ARACHIS HYPOGAEA) VARIETIES TO CERCOSPORA PERSONATA.
E El Nur G Ibrahim
Plant Dis Rep 52(5):405
May 1968 1.9 P69P
Breeding, Cercospora arachidicola, Cercospora personata, Copper, Crop yields, Peanuts, Spraying, Sulfur, X-rays.

17258-68
CHROMOSOMAL NUMBER AND MITOTIC DIVISION IN PIRICULARIA ORYZAE. (ABSTRACT).
P Giatgong A Frederiksen
Phytopathology 58(6):728
Jun 1968 464.8 P56
Chromosomes, Cytology, Genetics, Piricularia oryzae.

17259-68
THE TRANSPORT OF AUXIN.
M H M Goldsmith
Annu Rev Plant Physiol 19:347-360
1968 450 AN78
Ethylene, Indoleacetic acid, Plant hormones, Triiodohenzoic acid, 2,3,5-.

17260-68
CONTROL OF NEMATODES IN HORTICULTURAL CROPS IN GREAT BRITAIN.
G M Hague
Agr Vet Chem 8(2):37-44 REF
Mar 1967 382 AG82
Fungi, Fungicides, Mushrooms, Narcissus pseudonarcissus, Plant nematodes, Root rot, Thionazin, Tomatoes, Tulipa, Virucides, Viruses.

17261-68
METABOLIC CHANGES IN OXYGEN-DEFICIENT TOMATO ROOTS.
M G Huck
Diss Abstr Sect B 28(10):3967B
Apr 1968 Z5055.U49D53
Measurement, Nitrogen, Nutrient solutions (plants), Oxygen, Plant injuries, Plant nutrition, Plant translocation, Roots, Tissues, Tomatoes, Water.

17262-68
ON THE USE OF LOW TOXIC HERBICIDES IN PADDY FIELD. TRANSL. 16690.
H Hyakutake T Inoue S Chikura S Kojo
14 P.

Chemicals, Herbicides, Plant injuries, Plant morphology, Research, Rice, Toxicology, Water. Translation from Fukuoka Agricultural Experiment station, Report No. 2. translated by Micko Nishimura

17263-68
DISINFECTION, STERILIZATION, AND PRESERVATION. RA761.L3.
C A Lawrence S S Block
808 P. PHILADELPHIA, LEA AND FEBIGER
1968
Antiseptics, Canning, Crop yields, Laboratories, Radiation, Sterilization.

17264-68
ANASTOMOSIS IN VENTURIA INAEQUALIS (CKE.) WINT.
L S Lev
Diss Abstr Sect B 28(11):4377B
May 1968 Z5055.U49D53
Anastomosis, Fungi, Plant ecology, Plant genetics, Reproduction, Seed germination, Temperature, Venturia inaequalis.

17265-68
ANNUAL REVIEW OF PLANT PHYSIOLOGY.
L Macblis W R Briggs R B Parks
Annu Rev Plant Physiol 19,555 P.
1968 450 AN78
Cells, Metabolism, Photosynthesis, Plant morphology, Plant nutrition, Plant physiology.

17266-68
A QUANTITATIVE STUDY OF THE EFFECTS OF GIBBERELLIC ACID ON THE GROWTH OF FESTUCA ARUNDINACEA.
D G Morgan
Australian J Agr Res 19(2):221-225 REF
Mar 1968 23 AU783
Festuca arundinacea, Gibherellic acid, Photosynthesis, Plant biochemistry, Plant physiology, Plant regulators.

Abstract: First effect of G acid was to change the distribution of dry matter between shootand root and between tillers within the shoot without affecting total plant weight.

17267-68
THE ROLE OF MIXED FUNCTION OXIDASES IN DITERPENE METABOLISM.
P J Murphy
Diss Abstr Sect B 28(11):4416B
May 1968 Z5055.U49D53
Diterpenes, Gibberellins, Hormones, Liver, Metaholism, Oxidases, Plant physiology, Plant regulators, Rats.

17268-68
STOMATAL CONDUCTIVITIES IN K-DEFICIENT LEAVES OF MAIZE (ZEA MAYS, L.).
D E Peaslee D N Moss
Crop Sci 8(4):427-430 REF
Aug 1968 64.8 C883
Corn, Leaves, Phenylmercuric acetate, Photosynthesis, Plant nutritional deficiencies, Potassium, Research, Spraying, Stomata.

17269-68
NATURAL INFECTION OF SCOTS PINE BY LODGEPOLE PINE DWARF MISTLETOE IN CANADA.
J M Powell
Plant Dis Rep 52(5):409-410
May 1968 1.9 P69P
Arceuthobium americanum, Pinus sylvestris, Plant disease control, Stems, Trec diseases, Trees.

17270-68
FORMATION OF GROWTH INHIBITORS IN WILTING APRICOT LEAVES.
T N Pustovoitova
Soviet Plant Physiol 14(1):77-83 REF
Jan 1967 450 F580AE
Apricots, Droughts, Plant hormones, Plant physiology.

17271-68
THE ADSORPTION OF ATRAZINE BY SOILS AND SOIL COLLOIDAL COMPONENTS.
R O Radkc
Diss Abstr Sect B 28(11):4383B-4384B
May 1968 Z5055.U49D53
Assay, Atrazine, Bentonitc, Centrifugation, Colorimetry, Culturc media, Herhicides, Hydrogen-ion concentration, Soil adsorption, Soil colloids.

17272-68
METABOLIC CHANGES IN BIOTIN-DEFICIENT ASPERGILLUS NIDULANS.
K K Rao V V Modi
Can J Microbiol 14(7):813
Jul 1968 448.8 C162
Aspergillus nidulans, Biotin, Carbohydratcs, Culture media, Deficiency diseases. Fatty acids, Lipids, Mctabolism, Mitochondria, Proteins, Vitamins.

17273-68
EFFECT OF GENETIC RECOMBINATION ON THE PATHOGENICITY OF PHYTOPHTHORA INFESTANS.
S Romero-Cova
Diss Abstr Sect B 28(10):3962B-3963B
Apr 1968 Z5055.U49D53
Agar, Culture media, Fungi, Light, Phytophthora infestans, Plant genetics, Plant physiology, Reproduction, Seed germination, Temperature.

17274-68
PERMEABILITY TO METHYL BROMIDE OF WRAPPERS FOUND ON SHIPMENTS OF IMPORTED PLANTS.
H Roth H H Richardson
J Econ Entomol 61(3):776-778
Jun 1968 421 J822
Forcign trade, Freight transportation, Fumigation, Methyl bromidc, Packing, Pcrmeability, Plants.

17275-68
FURTHER OBSERVATIONS OF DWARF MISTLETOE ON EASTERN LARCH IN MINNESOTA.
F H Tainter D W French
Phytopathology 58(6):880-881
Jun 1968 464.8 P56
Arceuthohium, Larix, Parasitism, Picea glauca, Picea mariana, Rcsearch.

17276-68
SALT DAMAGE TO VEGETATION IN THE WASHINGTON, D. C. AREA DURING THE 1966-67 WINTER.
H V Wester E E Cohens
Plant Dis Rep 52(5):350-354
May 1968 1.9 P69P
Grasses, Growth factors, Meteorology, Silvcr nitratc, Sodium chloride, Soil analysis, Toxins, Trees, Vegetation.

DISEASES

17277-68
SOME PROBLEMS IN STUDYING THE INFECTION MECHANISM. (JA)
S Akai
Phytopathol Soc Jap Ann 33(3):121-123
Jun 1967 464.9 P562
Mechanics, Phytopatbology, Plant diseases, Research.

17278-68
EFFICACY OF SCREENING FUNGICIDAL AND FUNGISTATIC PROPERTIES AGAINST SOIL-BORNE PATHOGENS. (ABSTRACT).
W R Arnold R W Toler
Phytopathology 58(6):725
Jun 1968 464.8 P56
Fungicides, Fusarium oxysporum, Rhizoctonia solani, Sclerotium rolfsii, Soil-borne plant diseases, Thielaviopis basicola.

17279-68
CONCERNING THE EVIDENCE OF TOBACCO MOSAIC VIRUS IN GRAPE VINES. (GER)
R Bercks
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(6):346-349
Jun 1967 464.8 Z3
Grape vineyards, Injections, Mosaic (tobacco), Plant diseases, Serological tests. English summary

17280-68
ACCUMULATION OF PHENOLS IN RESISTANT PLANT-FUNGUS INTERACTIONS.
W L Biehn
Diss Abstr Sect B 28(11):4374B
May 1968 Z5055.U49D53
Fungus diseases (plants), Helminthosporium carhonum, Injections, Kidney beans, Lima beans, Phenol compounds, Phenols, Seedlings, Soybeans, Time.

17281-68
MORPHOLOGICAL AND NUCLEAR PHENOMENA OF FUSICLADIUM EFFUSUM. (ABSTRACT).
D J Blasingame C H Jr. Graves
Phytopathology 58(6):725
Jun 1968 464.8 P56
Fungus diseases (plants), Fusicladium effusum, Pecans, Plant morphology, Radiochemistry.

17282-68
MODE OF ENTRY OF DIPLODIA NATALENSIS AND PHOMOPSIS CITRI INTO FLORIDA ORANGES.
G E Brown W C Wilson
Phytopathology 58(6):736-739 REF
Jun 1968 464.8 P56
Diplodia natalensis, Fungus diseases (plants), Oranges, Phomopsis citri, Tissucs.

17283-68
STUDIES ON THE NECROTIC FLECK DISEASE OF EASTER LILY, LILIUM LONGIFLORUM.
E L Civerolo
Diss Abstr Sect B 28(10):3959B
Apr 1968 Z5055.U49D53
Centrifugation, Hydrogen-ion concentration, Lilium longiflorum, Mosaic (cucumbers), Necrotic fleck, Nucleic acids, Particle size determination, Plant disease transmission, Research, Seedlings, Spectrophotometry, Sucrose, Virus diseases (plants).

17284-68
EPIDEMIOLOGY OF TOMATO CURLY TOP IN THE YAKIMA VALLEY.
R L Clark
Phytopathology 58(6):811-813 REF
Jun 1968 464.8 P56
Curly top (tomatoes), Epidemiology, Rainfall, Temperature, Tomatoes, Virus diseases (plants).

17285-68
THE IDENTIFICATION OF SOME CYTOPLASMIC-POLYHEDROSIS VIRUSES.
J C Cunningham J F Longworth
J Invertebrate Pathol 11(2):196-202 REF
Aug 1968 421 J826
Cytoplasm, Electron microscopy, Extracts, Guinea pigs, Polyhedroses, Sedimentation, Serological tests, Virus diseases (insects).

17286-68
A CANKER CONDITION IN PEACH (PRUNUS PERSICA (L.) BATSCH) INDUCED BY CHILLING AND ITS RELATIONSHIP TO BACTERIAL CANKER (PSEUDOMONAS SYRINGAE VAN HALL).
J R Davis
Diss Abstr Sect B 28(11):4375B-4376B
May 1968 Z5055.U49D53
Bacteria, Canker (peaches), Culture media, Leaves, Peaches, Plant diseases, Plant histology, Plant physiology, Pseudomonas syringae, Seedlings, Temperature.

340988 0013

17287-68
INVESTIGATIONS ON THE MYCOTROPHY OF THE SPRUCE-PICEA EXCELSA (LAM.) LK. IN POLAND. (TT 65-50356) TRANSL. 16788.
T Dominik
24 P.
1967
Anatomy, Fungus diseases (plants), Mycorrhiza, Picea abies, Plant physiology, Research, Tables (data). Translation from Prace Instytutu Badawczego Lesnictwa 209:59-102, 1961, issued by USDA/ONSF

17288-68
OCCURRENCE OF FOMES ANNOSUS IN INTENSIVELY MANAGED YOUNG-GROWTH WESTERN HEMLOCK STANDS.
C H Driver R E Wood
Plant Dis Rep 52(5):370-374
May 1968 1.9 P69P
Fomes annosus, Fungus diseases (plants), Growth factors, Plant disease control, Tsuga heterophylla, Wood decay.

17289-68
SUBTERRANEAN SPORULATION BY TWO GRAMINICOLOUS SMUT FUNGI.
R Duran
Phytopathology 58(3):390 REF
Mar 1968 464.8 P56
Plant reproduction, Soil fungi, Soil profiles, Spores, Ustilaginales.

17290-68
DIALLEL ANALYSES OF THE INHERITANCE OF RESISTANCE IN COTTON, GOSSYPIUM HIRSUTUM L.: TO RACES OF XANTHOMONAS MALVACEARUM (E.F.SM.) DOWSON.
K M El-zik
Diss Abstr Sect B 28(10):3959B-3960B
Apr 1968 Z5055.U49D53
Assay, Bacteria, Diallel, Environment, Frequency distribution, Genes, Heredity, Immunity, Injections, Leaves, Plant diseases, Plant genetics, Upland cotton, Xanthomonas malvaccarum.

17291-68
A BIOCHEMICAL DIFFERENCE BETWEEN HEALTHY BEAN LEAVES RESISTANT AND SUSCEPTIBLE TO THE HALO-BLIGHT DISEASE CAUSED BY PSEUDOMONAS PHASEOLICOLA.
H A S Epton B J Deverall
Ann Appl Biol 61(2):255-268 REF
Apr 1968 442.8 AN72
Beans, Biochemistry, Halo blight (beans), Leaves, Linoleic acid, Linolenic acid, Lipids, Plant disease resistance, Pseudomonas phaseolicola.

17292-68
POPULATION DEVELOPMENT OF XIPHINEMA AMERICANUM IN RELATION TO ITS ROLE AS A VECTOR OF TOBACCO RINGSPOT VIRUS.
H Flores R A Chapman
Phytopathology 58(6):814-817 REF
Jun 1968 464.8 P56
Cucumbers, Grapes, Nematode vectors, Nematodes, Population, Ring spot (tobacco), Rosa, Tobacco, Virus diseases (plants), Xiphinema americanum.

17293-68
RESEARCH INTO THE OCCURENCE OF ERGOT, CLAVICEPS PURPUREA (FR.) TUL., ON THE MEADOW PANICLE POA PRATENSIS L. (GER)
K Frauenstein
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(7-8):443-459 REF
Jul 1967 464.8 Z3
Claviceps purpurea, Plant pest control, Poa pratensis, Research.

17294-68
EUTYPELLA CANKER ON SPECIES OF ACER IN NEW YORK STATE.
W J French
Diss Abstr Sect B 28(10):3960B
Apr 1968 Z5055.U49D53
Acer, Cytospora, Eutypella parasitica, Host indexing (plants), Humidity, Plant anatomy, Reproduction, Temperature, Tree injuries.

17295-68
COCCOMYCES HETEROPHYLLAE N.SP., HYPODERMATACEOUS FUNGUS FROM THE PERIDERM OF WESTERN HEMLOCK.
A Funk
Can J Bot 45(12):2263-2266
Dec 1967 470 C16C
Bark, Coccomyces heterophyllae, Fungus diseases (plants), Tsuga heterophylla. English and French summaries.

Abstract

17296-68
TRANSMISSION OF BARLEY YELLOW DWARF VIRUS ISOLATES FROM MANITOBA BY FIVE SPECIES OF APHIDS.
C C Gill
Phytopathology 57(7):713-718 REF
Jul 1967 464.8 P56
Acyrthosiphon dirhodum, Agropyron repens, Aphididae, Bromus inermis, Grain, Macrosiphum avenae, Plant disease transmission, Rhopalosiphum maidis, Rhopalosiphum padi, Schizaphis graminum, Yellow dwarf (barley).

Abstract

17297-68
SEASONAL DEVELOPMENT AND EMERGENCE OF TWO SPECIES OF GALL-FORMING APHIDS, PEMPHIGUS BURSARIUS AND P. NORTONI, ASSOCIATED WITH POPLAR TREES IN CALIFORNIA.
A A Grigarick W H Lange
Entomol Soc Amer Ann 61(2):509-514 REF
15 Mar 1968 420 EN82
Aphididae, Pemphigus bursarius, Pemphigus nortoni, Plant galls, Populus, Populus fremonti, Populus nigra.

17298-68
BACTERIAL WILT, PSEUDOMONAS SOLANACEARUM (ERW. SMITH 1896) ERW. SMITH 1914 OF TOMATO IN THE NORTHERN TERRITORY.
J B Heaton C W Benson
Australian Inst Agr Sci J 34(1):37-38
Mar 1968 23 AU74
Bacterial diseases (plants), Bacterial wilt (tomatoes), Plant disease resistance, Pseudomonas solanacearum, Tomatoes.

17299-68
CONTROL OF AERIAL CROWN-GALL DISEASE IN CHERRY TREES WITH SPRAY-APPLIED SYSTEMIC FUNGICIDES.
A W Helton R E Williams
Phytopathology 58(6):782-787
Jun 1968 464.8 P56
Bacterial diseases (plants), Cherries, Crown galls (fruit), Fungicides, Plant protection, Spraying, Trees.

17300-68
MOVEMENT OF TOBACCO MOSAIC VIRUS WITHIN NICOTIANA GLUTINOSA PLANT GRAFTED WITH TOBACCO. (JA)
T Hino H Yoshii
Phytopathol Soc Jap Ann 34(1):61-68 REP F
Jan 1968 464.9 P562
Culture media, Leaves, Mosaic (tobacco), Necrosis, Nicotiana glutinosa, Phloem, Plant disease transmission, Plant diseases, Plant physiology, Plant translocation, Tissue grafting. Abstract in English

17301-68
STUDIES ON THE CHEMOTHERAPY FOR PLANT VIRUS DISEASES. XII. METHODS OF APPLYING ANTIVIRAL CHEMICALS AGAINST INFECTED PLANTS. (JA)
T Hirai T G Yun
Phytopathol Soc Jap Ann 24(2):109-113 REF
Mar 1968 464.9 P562
Biochemistry, Chemicals, Drug therapy, Injections, Mosaic (tobacco), Plant physiology, Roots, Seedlings, Spraying, Tomatoes, Virucides, Virus diseases (plants), Virus x (potatoes). Abstract in English

17302-68
ANTAGONISTIC EFFECTS OF ASPERGILLUS NIGER ON MACROPHOMINA PHASEOLI. (ABSTRACT).
D C N Hsi
Phytopathology 58(6):729
Jun 1968 464.8 P56
Aspergillus niger, Competition, Fungi, Macrophomina phaseoli, Sorghum.

17303-68
THE DEVELOPMENT OF A SET OF UPLAND COTTON LINES FOR DIFFERENTIATING RACES OF XANTHOMONAS MALVACEARUM.
R E Hunter L A Brinkerhoff L S Bird
Phytopathology 58(6):830-832 REF
Jun 1968 464.8 P56
Bacterial diseases (plants), Cotton, Plant breeding, Xanthomonas malvacearum.

17304-68
A PYRENOPHORA-COCHLIOBOLUS (HELMINTHOSPORIUM) DISEASE COMPLEX IN BARLEY.
J A Hutchison J F Schafer
Plant Dis Rep 52(5):395
May 1968 1.9 P69P
Bacterial diseases (plants), Barley, Climate, Cochliobolus sativus, Leaves, Microorganisms, Net blotch (barley), Plant diseases, Pyrenophora teres.

17305-68
ON THE DAMAGE OF CERCOSPORA LEAF SPOT OF SUGAR BEETS CAUSED BY CERCOSPORA BETICOLA SACC. (JA)
W Iida K Kudo T Kimigafukuro
Phytopathol Soc Jap Ann 34(1):1-6
Jan 1968 464.9 P562
Biochemistry, Cercospora beticola, Copper, Fungicides, Leaf spot (sugar beets), Plant diseases, Plant injuries, Plant physiology, Spraying. Abstract in English.

17306-68
HEAT-INDUCED SUSCEPTIBILITY OF BEANS TO RUST.
H Ikegami
Phytopathology 58(6):773-775
Jun 1968 464.8 P56
Fungus diseases (plants), Heat, Lima beans, Plant disease resistance, Rust (beans).

17307-68
PROBLEMS OF CAUSTIC GRAIN IN SCANDINAVIA. (GER)
E A Jamalainen
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(5):302-311
1967 464.8 Z3
Fusarium nivale, Grain, Helminthosporium gramineum, Plant diseases, Tilletia caries, Ustilago avenae, Ustilago hordei.

17308-68
ISOLATION OF POLYRIBOSOME FROM TOBACCO PLANTS INFECTED WITH TOBACCO MOSAIC VIRUS.
Y Kiho
Jap J Microbiol 12(2):211-217 REF
Jun 1968 448.8 J273
Mosaic (tobacco), Plant biochemistry, Plant genetics, Ribosomes, Tobacco.

Abstract

17309-68
STUDIES ON VIRUS DISEASES OF STONE FRUITS. I. PEACH NECROTIC RINGSPOT AND PRUNE DWARF VIRUS IN JAPAN. (JA)
K Kishi K Takanashi K Abiko
Phytopathol Soc Jap Ann 34(2):143-150 REF
Jul 1968 464.9 P562

340988 0014

Chenopodium amaranticolor, Dwarf disease (prunus), Fruit, Host indexing (plants), Necrosis, Plant disease transmission, Research, Ring spot (peaches), Sap, Temperature, Virus diseases (plants). Abstract in English

17310-68
OCCURRENCE OF RUST ON THE ALEPPO PINE IN ISTRIA. (TT 67-51309) TRANSL. 16915.
J Kispatic
15 P. MAP REF
1967
Cronartium, Fungus diseases (plants), Pinus halepensis, Plantations, Rust (trees), Taxonomy, Tree diseases, Uredinales. Translation from Sumarski List 1(3):26-38, 1959. issued by USDA/ONSF.

17311-68
THE INHERITANCE OF RESISTANCE TO STEM RUST RACES 56 AND 15B-1L (CAN.) IN THE WHEAT VARIETIES HOPE AND H-44.
D R Knott
Can J Genet Cytol 10(2):311-320 REF
Jun 1968 443.8 C16
Breeding, Chromosomes, Hereditary diseases, Immunity, Plant genetics, Stem rust (wheat), Wheat.

17312-68
SURVIVAL OF FOMES ANNOSUS IN THE PRESENCE OF COMPETING FUNGI IN LOBLOLLY PINE ROOTS. (ABSTRACT).
E G Kuhlman
Phytopathology 58(6):729
Jun 1968 464.8 P56
Competition, Decomposition, Fomes annosus, Peniophora gigantea, Pinus taeda, Roots, Soil fungi.

17313-68
HISTOCHEMICAL OBSERVATION OF THE HALO ON THE EPIDERMAL CELL WALL OF BARLEY LEAVES ATTACKED BY ERYSIPHE GRAMINIS VAR. HORDEI. ((ABSTRACT).
H Kunoh S Akai
Phytopathology 58(6):729-730
Jun 1968 464.8 P56
Barley, Cell wall, Chemistry, Enzymes, Erysiphe graminis, Fungus diseases (plants), Histology, Leaves.

17314-68
THE ASSOCIATION OF FREE AMINO ACIDS OF COTTON LEAVES WITH RESISTANCE TO XANTHOMONAS MALVACEARUM CAUSED BY THE B4 GENE AND THE INFLUENCE OF NITROGEN AND POTASSIUM NUTRITION.
W G Lipke
Diss Abstr Sect B 28(10):4022B
Apr 1968 Z5055.U49D53
Amino acids, Genes, Immunity, Injections, Leaves, Nitrogen, Plant diseases, Plant hardiness, Plant nutrition, Potassium, Reproduction, Upland cotton, Xanthomonas malvaccarum.

17315-68
EFFECT OF SOIL TEMPERATURE ON PATHOGENICITY OF PYTHIUM APHANIDERMATUM AND P. MYRIOTYLUM TO RYE AND TOMATO SEEDLINGS. (ABSTRACT).
R H Littrell S M McCarter
Phytopathology 58(6):730
Jun 1968 464.8 P56
Fungus diseases (plants), Pythium aphanidermatum, Pythium myriotylum, Rye, Soil temperature, Tomatoes.

17316-68
RESISTANCE TO BROWN SPOT IN FLUE-CURED TOBACCO. (ABSTRACT).
C E Main J F Chaplin
Phytopathology 58(6):730
Jun 1968 464.8 P56
Alternaria tenuis, Brown spot (tobacco), Flue-cured tobacco, Fungus diseases (plants), Plant disease resistance.

17317-68
SEROLOGICAL DIFFERENTIATION BETWEEN SPECIES OF RHIZOCTONIA AND CERATOBASIDIUM. (ABSTRACT).
W J Manning A C Runyan D J Morton
Phytopathology 57(7):647
Jul 1967 464.8 P56
Ceratobasidium, Rhizoctonia, Serological tests.

17318-68
THE NUCLEIC ACIDS OF CROWN-GALL TUMORS FROM PINTO BEAN LEAVES AND THEIR SIGNIFICANCE TO CROWN-GALL TUMOR INDUCTION BY AGROBACTERIUM TUMEFACIENS.
M W Meyer
Diss Abstr Sect B 28(9):3601B
Mar 1968 Z5055.U49D53
Agrobacterium tumefaciens, Bacterial diseases (plants), Crown galls (beans), Deoxyribonucleic acid, Kidney beans, Leaves, Nitrogen, Phosphorus, Radioactive tracers, Ribonucleic acid.

17319-68
AN INDIRECT ROLE OF CYTOCHROME OXIDASE IN LOSS OF PRUNE DWARF VIRUS INFECTIVITY IN SQUASH TISSUE HOMOGENATES.
G I Mink
Phytopathology 57(7):797-798
Jul 1967 464.8 P56
Cytochrome oxidase, Prune dwarf (squash), Squash, Tissues, Virus diseases (plants).

17320-68
INHIBITION OF TOBACCO MOSAIC VIRUS INFECTION BY COUMARIN.
M D Mishra A Ghosh S P Raychaudhuri
Acta Virol 12(2):173-176
May 1968 448.3 AC85
Chenopodium amaranticolor, Coumarin, Culture media, Datura stramonium, Injections, Mosaic (tobacco), Seedlings, Spraying, Virus diseases (plants).

17321-68
MORPHOLOGY OF STOMATA OF PEACH CULTIVARS DIFFERING IN RESISTANCE TO BACTERIAL SPOT. (ABSTRACT).
J F Moore D H Petersen
Phytopathology 58(6):730
Jun 1968 464.8 P56
Bacterial diseases (plants), Bacterial spot (peaches), Peaches, Plant disease resistance, Plant morphology, Stomata.

17322-68
SEROLOGICAL DIFFERENCES BETWEEN APPARENTLY TYPICAL PEPPER AND TOMATO ISOLATES OF XANTHOMONAS VESICATORIA. (ABSTRACT).
D J Morton L M OBrien W J Manning
Phytopathology 57(7):647-648
Jul 1967 464.8 P56
Bacterial diseases (plants), Redpeppers (vegetable), Serological tests, Tomatoes, Xanthomonas vesicatoria.

17323-68
FIRST REPORT ON PLANT VIRUS DISEASES IN LEBANON, JORDAN, AND SYRIA.
F Nienhaus A T Saad
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(7/8):459-471
Jul 1967 464.8 Z3
Agricultural economics, Citrus, Mosaic (alfalfa), Mosaic (cucumbers), Mosaic (tobacco), Vegetables, Virus diseases (plants).

17324-68
STUDIES OF THE SEED-TRANSMISSION OF TOBACCO RINGSPOT VIRUS.
G K Owusu N C Crowley R I B Francki
Ann Appl Biol 61(2):195-202 REF
Apr 1968 442.8 AN72
Biological transport, Ring spot (tobacco), Seedborne plant diseases, Soybeans, Tobacco, Virus diseases (plants).
Abstract: Age of plant at time of infection was most important factor determining amount of infected seed produced.

17325-68
INVESTIGATIONS OF PURE CULTURE OF MYCORRHIZAL FUNGI OF PINE, PINUS SILVESTRIS L. QK608.0P70P3.
R Pachlewski
192 P. REF WARSAW, FOREST RESEARCH INSTITUTE
1967
Culture media, Fungus diseases (plants), Mycorrhiza, Pinus sylvestris, Plant morphology, Tree diseases.

17326-68
SURVIVAL OF ROOT-INFECTING FUNGI IN SOIL. VIII. DISTRIBUTION OF RHIZOCTONIA SOLANI IN VARIOUS PHYSICAL FRACTIONS OF NATURALLY AND ARTIFICALLY INFESTED SOILS.
G C Papavizas
Phytopathology 58(6):746-751 REF
Jun 1968 464.8 P56
Fungus diseases (plants), Rhizoctonia solani, Roots, Soil fungi.

17327-68
THE AUTOECIOUS SPECIES OF PUCCINIA ON HELIANTHEAE IN NORTH AMERICA.
J A Parmelee
Can J Bot 45(12):2267-2327 REF
Dec 1967 470 C16C
Fungus diseases (plants), Helianthcae, Plant taxonomy, Puccinia, Uredinales. Includes key
Abstract

17328-68
IRON COMPOUNDS AND PLANT NUTRITION.
C A Price
Annu Rev Plant Physiol 19:239-248 REF
1968 450 AN78
Chlorosis (plants), Iron compounds, Plant nutrition, Plant nutritional deficiencies, Plant physiology, Research.

17329-68
DUTCH ELM DISEASE FOUND IN SOUTH DAKOTA.
H Randall C M Nagel L S Wood
Plant Dis Rep 52(5):349,MAP
May 1968 1.9 P69P
Ceratocystis ulmi, Dieback (ulmus), Laboratories, Pathogen, Plant diseases, Ulmus americana, Wood decay.

17330-68
COMPARATIVE STUDIES CONCERNING TOXICITY AND SELECTIVITY OF STERILIZATION MEASURES FOR SOIL MICROORGANISMS. (GER)
H Reber
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(7-8):414-426 REF
Jul 1967 464.8 Z3
Bactericides, Chemical control (plant diseases), Chloropicrin, Fungus diseases (plants), Methyl bromide, Methyl isothiocyanate, Soil microorganisms, Soil sterilization, Toxicology. English summary

17331-68
COMPARATIVE STUDIES INTO THE RECOLONIZATION OF CHEMICALLY TREATED SOIL. (GER)
H Reber
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(7-8):427-438
Jul 1967 464.8 Z3
Bactericides, Chemical control (plant diseases), Chloropicrin, Fungus diseases (plants), Soil microorganisms, Soil sterilization. English summary

340988 0015

17332-68
ECOLOGY OF FUNGI. QK601.0R6.
R K Robinson
116 P. LONDON, ENGLISH UNIVERSITIES PRESS LIMITED
1967
Ecology, Fungi, Plant diseases, Roots, Saprophytes.

17333-68
RESPONSE OF RHIZOCTONIA BATATICOLA TO GROWTH REGULATORS, TRACE ELEMENTS AND VITAMINS.
H C Sankhla R L Mathur
Indian Phytopathol 20(2):142-145 REF
Jun 1967 464.8 IN2
Biochemistry, Culture media, Fungi, Micronutrients, Plant regulators, Rhizoctonia hataticola, Root rot (cotton), Vitamins.

17334-68
POSITION AND DEVELOPMENT OF THE CONTROL OF GRAIN DISEASES THROUGH SEED TREATMENT. (GER)
G Schuhmann
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(3):155-167 REF
Mar 1967 464.8 Z3
Chemical control (plant diseases), Grain, Plant physiological diseases, Seed treatment, Seed-borne plant diseases. English summary

17335-68
ELECTRON MICROSCOPIC STUDIES ON PLANT VIRUSES. (JA)
E Shikata
Phytopathol Soc Jap Ann 33(3):124-125
Jun 1969 464.9 P562
Electron microscopy, Enation mosaic (peas), Phytopathology, Research, Virus diseases (plants), Wound tumor virus, Yellow dwarf (potatoes).

17336-68
BIOCHEMICAL PROPERTIES OF THE INCREASED PROTEINS IN DISEASED LEAVES OF RICE PLANTS IN THE EARLY STAGE OF INFECTION BY HELMINTHOSPORIUM ORYZAE. (JA)
J Shishiyama T Oguchi S Akai
Phytopathol Soc Jap Ann 34(1)23-27 REF
Jan 1968 464.9 P562
Amino acids, Aspartic acid, Beta-amylase, Biochemistry, Glutamic acid, Helminthosporium oryzae, Leaves, Plant diseases, Proteins, Rice, Seed germination, Starches. Abstract in English

17337-68
THE CHANGE OF PROTEIN FRACTIONS IN DISEASED LEAVES OF RICE PLANTS IN THE EARLY STAGE OF INFECTION BY HELMINTHOSPORIUM ORYZAE. (JA)
J Shishiyama T Oguchi S Akai
Phytopathol Soc Jap Ann 34(1):16-22 REF
Jan 1968 464.9 P562
Chromatography, Culture media, Electrophoresis, Helminthosporium oryzae, Injections, Leaves, Plant diseases, Plant morphology, Proteins, Rice, Temperature, Time. Abstract in English.

17338-68
HISTOPATHOLOGICAL STUDIES OF RED CLOVER ROOTS INFECTED BY FUSARIUM ROSEUM.
W M Siddiqui P M Halisky
Phytopathology 58(6):874-875
Jun 1968 464.8 P56
Fungus diseases (plants), Fusarium roseum, Histology, Red clover, Research, Roots.

17339-68
PATHOGENESIS IN DUTCH ELM DISEASE.
D Singh
Diss Abstr Sect B 28(11):4378B-4379B
May 1968 Z5055.U49D53
Amino acids, Diehack (ulmus), Injections, Ninhydrin reaction, Nitrogen compounds, Proline, Tree diseases, Xylem.

17340-68
MASS SELECTION FOR RESISTANCE TO SELENOPHOMA BROMIGENA IN NORTHERN AND SOUTHERN TYPES OF BROMUS INERMIS.
J D Smith R P Knowles
Can J Plant Sci 47(6):679-681
Nov 1967 450 C16
Bromus inermis, Fungus diseases (plants), Plant disease resistance, Plant genetics, Selenophoma bromigena.
Abstract

17341-68
HOT-WATER TREATMENT OF SUGARCANE SEED MATERIAL. A SIMPLE METHOD SUITABLE FOR RURAL AREAS.
K V Srinivasan J T Rao
Indian Farming 18(1):25-26,29
Apr 1968 22 IN283
Equipment, Fungicides, Plant disease control, Seed treatment, Sugarcane.

17342-68
FUNGICIDAL ACTION OF TRIPHENYL TIN HYDROXIDE TOWARD CERCOSPORA BETICOLA ON SUGAR BEET LEAVES.
G F Stallknecht L Calpouzos
Phytopathology 58(6):788-790
Jun 1968 464.8 P56
Cercospora beticola, Chemical reactions, Fungicides, Fungus diseases (plants), Leaves, Sugar beets, Triphenyltin hydroxide.

17343-68
A RAPID TEST FOR AN ANTIFUNGAL SUBSTANCE PRODUCED BY A WOODINHABITING FUNGUS IN CULTURE.
M A Stillwell W A Hodgson
Can J Microbiol 14(7):807-808
Jul 1968 448.8 C162
Betula alleghaniensis, Biological assay, Culture media, Fungicides, Fungus diseases (plants), Late blight (potatoes), Research, Seed germination.

17344-68
LIPID METABOLISM IN CLUBROOT OF CABBAGE.
J O Strandberg
Diss Abstr Sect B 28(11):4379B
May 1968 Z5055.U49D53
Brassica oleracea, Carbon isotopes, Chromatography, Clubroot (cabbage), Fatty acids, Glucose, Lipids, Metabolism, Plant diseases, Plasmodiophora brassicae.

17345-68
THE EFFECT OF SOIL MOISTURE ON CORN STALK ROT.
D R Sumner
Phytopathology 58(6):761-765 REF
Jun 1968 464.8 P56
Corn, Fungus diseases (plants), Soil moisture, Stem rot (corn), Trichoderma viride.

17346-68
FIELD TESTS FOR CONTROL OF RED PINE SEEDLING DISEASES.
J R Sutherland
Phytoprotection 48(2):58-67
Jun 1967 464.8 P566
Captan, Chemical control (plant diseases), Chemical control (weeds), Nematodes, Pinus resinosa, Plant diseases, Plant physiology, Seed germination, Seedlings, Soil fumigation, Trizone. French summary.

17347-68
EVIDENCE FOR MULTIPLICITY REACTIVATION OF ULTRAVIOLET LIGHT IRRADIATED RIBONUCLEIC ACID ISOLATED FROM TOBACCO MOSAIC VIRUS.
T Takahashi T Hayashi Y Kiho
Jap J Microbiol 12(2):187-193 REF
Jun 1968 448.8 J273
Mosaic (tobacco), Plant biochemistry, Plant genetics, Ribonucleic acid, Tobacco, Ultraviolet rays, Virology.
Abstract

17348-68
THE ULTRASTRUCTURE OF OLPIDIUM BRASSICAE. I. FORMATION OF SPORANGIA.
J H M Temmink R N Campbell
Can J Bot 46(8):951-956 REF
Aug 1968 470 C16C
Lettuce, Olpidium brassicae, Plant morphology, Plant physiology, Roots, Sporangia.

17349-68
EFFECTS OF MAIZE DWARF MOSAIC ON GRAIN SORGHUM PERFORMANCE. (ABSTRACT).
R W Toler A J Bockholt R H Leisy
Phytopathology 58(6):731
Jun 1968 464.8 P56
Dwarf disease (corn), Epidemiology, Mosaic (corn), Sorghum, Virus diseases (plants).

17350-68
A NEW STRAIN OF POTATO VIRUS Y ISOLATED BURLEY TOBACCO IN JAPAN. (JA)
K Tomaru A Udagawa
Phytopathol Soc Jap Ann 34(2):77-84 REF
Mar 1968 464.9 P562
Bush redpeppers (vegetable), Epidemiology, Injections, Leaves, Temperature, Time, Virus diseases (plants), Virus Y (tobacco). Abstract in English

17351-68
SOME PROPERTIES OF A CUCUMBER MOSAIC VIRUS STRAIN ISOLATED FROM PRUNUS SPP.
J H Tremaine
Phytopathology 58(6):797-801 REF
Jun 1968 464.8 P56
Cucumbers, Mosaic (cucumbers), Properties, Prunus, Virus diseases (plants).

17352-68
STIMULATION OF TOBACCO MOSAIC VIRUS-INDUCED LESIONS ON BEAN BY FLUORIDE.
M Treshow G Dehn F M Harner
Phytopathology 57(7):756-758
Jul 1967 464.8 P56
Beans, Fluorides, Mosaic (beans).
Abstract

17353-68
STUDIES AND OBSERVATIONS ON ARMILLARIA MELLEA (VAHL.) QUEL. AS THE CAUSE OF MASS DYING-OFF OF FOREST STANDS. (TT 66-57031) TRANSL. 16925.
Z Twarowski I Twarowska
61 P. REF
1967
Armillaria mellea, Economics, Forests, Fungi, Fungus diseases (plants), Research, Tree injuries. Translation from Prace Instytutu Badawczego Lesnictwa 192:3-63 1959. issued by USDA/0NSF

17354-68
THE EFFECT OF HOT WATER TREATMENT ON A VIRUS OF OPUNTIA EXALTATA.
F A Van Der Meer
Neth J Plant Pathol 73(2):58-59
1967 464.8 T44
Hot water treatment (plants), Opuntia exaltata, Plant abnormalities, Virus diseases (plants). Dutch summary

17355-68
INHIBITION OF THE TRANSMISSION BY APHIDS OF SOME PLANT VIRUSES BY OIL PULVERIZATION. (FR)
J Vanderveken N Vilain
Ann Epiphyt 18:125-132
1967 464.9 F84AN
Aphididae, Emulsions, Insect vectors, Mosaic (beans), Mosaic (sugar beets), Myzus persicae,

Oils, Plant disease transmission, Virus diseases (plants), Virus y (potatoes), Yellow mosaic (beans). English and German summaries

17356-68
THE ELECTROPHORESIS AND HISTOCHEMICAL LOCALIZATION OF CERTAIN RESPIRATORY ENSYMES OF TOBACCO INFECTED BY PHYTOPHTHORA PARASITICA VAR. NICOTIANAE.
J A Veech
Diss Abstr Sect B 28(10):3964B
Apr 1968 Z5055.U49D53
Dehydrogenases, Electrophoresis, Enzymes, Fungus diseases (plants), Glucose, Histochemistry, Immunity, Peroxidases, Phytophthora parasitica, Plant respiration, Spectrophotometry, Tobacco.

17357-68
FACTORS LIMITING THE SURVIVAL OF ASCOCHYTA SPP. OF PEAS IN SOIL.
V R Wallen J Jeum
Can J Bot 46(10):1279-1286 MAP
Oct 1968 470 C16C
Ascochyta pinodella, Ascochyta pinodes, Ascochyta pisi, Fungus diseases (plants), Peas, Temperature, Time.

17358-68
VIRUS DISEASES IN ORNAMENTAL PLANTS. (GER)
B Weil
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(3):167-175
Mar 1967 464.8 Z3
Agricultural economics, Annual plants, Dianthus caryophyllus, Ornamental plants, Perennial plants, Phytopathology, Virus diseases (plants). English summary

17359-68
HYBELLE AND SANIBEL, MULTIPLE DISEASE RESISTANT F1 HYBRID CABBAGES.
P H Williams J C Walker G S Pound
Phytopathology 58(6):791-796
Jun 1968 464.8 P56
Cabbage, Fusarium, Plant breeding, Plant disease resistance, Rhizoctonia.

17360-68
FUNGISTATIC PROPERTIES OF SOILS EXPOSED TO DIFFERENT ANTECEDENT ENVIRONMENTS.
G M Willis L E Williams
Can J Microbiol 14(7):755-761 REF
Jul 1968 448.8 C162
Agar, Assay, Bipolaris sorokiniana, Environment, Fungus diseases (plants), Nutrition, Oats, Roots, Soil fungi.

17361-68
DELAYED SYMPTOM EXPRESSION OF FOMES ANNOSUS ROOT ROT OF PINE. (ABSTRACT).
W Witcher C L Lane L W Baxter
Phytopathology 58(6):732
Jun 1968 464.8 P56
Fomes annosus, Fungus diseases (plants), Pinus, Root rot (pinus).

17362-68
BIOCHEMICAL EXAMINATION OF STRAINS OF TOBACCO MOSAIC VIRUS MUTANTS. (GER)
H G Wittmann
Z Pflanzenkrankh (pflanzenpathol) Pflanzenschutz 74(3):189-195
Mar 1967 464.8 Z3
Electrophoresis, Mosaic (tobacco), Proteins, Ribonucleic acid, Virus diseases (plants), Virus mutation. English summary

17363-68
WOOD INHABITING FUNGI IN A PINE PLANTATION IN AUSTRALIA.
O Yaartaja
Mycopathol Mycol Appl 34(1):81-89 REF
19 Jan 1968 450 M994
Fungi, Fungus diseases (plants), Pinus radiata, Stereum sanguinolentum. Fungi potentially control agents of S. sanguinolentum.
Abstract

17364-68
SUSCEPTIBILITY OF DARWIN HYBRID TULIPS TO TULIP BREAKING VIRUS.
A Yamaguchi
Phytopathology 58(6):878-879
Jun 1968 464.8 P56
Mosaic (tulipa), Plant breeding, Plant disease resistance, Tulipa, Virus diseases (plants).

17365-68
PENETRATION AND COLONIZATION OF RESISTANT AND SUSCEPTIBLE SOYBEAN PODS BY DIAPORTHE SOJAE. (ABSTRACT).
F A Yelen H W Crittenden
Phytopathology 57(7):649
Jul 1967 464.8 P56
Crop varieties, Diaporthe sojae, Fungus diseases (plants), Plant disease resistance, Soyheans.

17366-68
THE TERM HYPERSENSITIVE REACTION IS INADEQUATE TO EXPLAIN THE NECROTIC LESION FORMATION OF NICOTIANA GLUTINOSA INFECTED WITH TOBACCO MOSAIC VIRUS. (JA)
H Yoshii
Phytopathol Soc Jap Ann 34(1):69-72 REF
Jan 1968 464.9 P562
Colletotrichum lindemuthianum, Injections, Leaves, Mosaic (tobacco), Necrosis, Nicotiana glutinosa, Plant abnormalities, Plant cytology, Plant translocation, Puccinia graminis, Virus diseases (plants). Abstract in English.

17367-68
INTERNATIONAL DISPERSAL OF FUNGI.
J C Zadoks
Neth J Plant Pathol 73(SUP.1):61-80 REF
1967 464.8 T44
Fungi dissemination, Fungus diseases (plants), Phytopathology, Plant disease control, Plant quarantine, Plant translocation.

17368-68
A COMPARISON OF CELL WALL COMPOSITION IN BANANA PLANTS RESISTANT OR SUSCEPTIBLE TO FUSARIUM OXYSPORUM F. SP. CUBENSE.
G E Zaroogian C H Beckman
Phytopathology 58(6):733-735 REF
Jun 1968 464.8 P56
Bananas, Biological assay, Fungus diseases (plants), Fusarium oxysporum, Plant disease resistance.

ARTHROPODS

17369-68
CONTROL OF THE WHITE MITE ON COTTON WITH VARIOUS POWDER AND DUST PRODUCTS. (POR)
P R Almeida R D Cavalcante A A Holanda
Biologico 33(11):251-253
Nov 1967 442.8 B529
Chemical control (insects), Cotton, Ddt, Mites, Pesticides.

17370-68
TOXICITY OF PETKOLIN AGAINST COTTON APHIDS (HEMIPTERA: APHIDIDAE).
M Anwarullah S S Qureshi S H Ashrafi
Pakistan J Sci Indus Res 10(4):251-253 REF
Oct 1967 475 P174
Aphis gossypii, Chemical control (insects), Cotton, Forests, Insecticides, Plant pest control, Vegetables.
Abstract

17371-68
THE AETIOLOGY AND DEVELOPMENT OF DAMAGE IN YOUNG FRUIT TREES INFESTED WITH FRUIT TREE RED SPIDER MITE, PANONYCHUS ULMI (KOCH).
D J Avery J B Briggs
Ann Appl Biol 61(2):277-288 REF
Apr 1968 442.8 AN72
Apples, Fruit, Panonychus ulmi, Photosynthesis, Plant injuries, Plums, Trees.
Abstract: Radioactivity was detected in the growing regions of plants remote from mature leaves on which 14C-labelled mites were confined.

17372-68
A COMPLEX OF FUNGI MUTUALISTICALLY INVOLVED IN THE NUTRITION OF THE AMBROSIA BEETLE XYLEBORUS FERRUGINEUS.
J M Baker D M Norris
J Invertebrate Pathol 11(2):246-250
Aug 1968 421 J826
Cephalosporium, Culture media, Fungi, Fungus diseases (insects), Fusarium solani, Injections, Insect nutrition, Platypodidae, Xylehorus ferrugineus.

17373-68
SOME OBSERVATIONS ON VECTORS AND TRANSMISSION OF TOBACCO ETCH VIRUS.
H R Boyce C D McKeen
Entomol Soc Ontario Proc 97:68-71
1966 420 ON8
Etch (tohacco), Insect pests, Insect vectors, Macrosiphum euphorbiae, Myzus persicae, Physalis heterophylla, Plant disease transmission, Tobacco.

17374-68
BIOLOGICAL CONTROL. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.
R L Doutt
3-30 REF NEW YORK, ACADEMIC PRESS
1967
Biological control (pests), Ecology, Insect histology, Insect pests, Parasitism, Taxonomy.

17375-68
A MONOGRAPH OF THE IMMATURE STAGES OF ORIENTAL TIMBER BEETLES (CERAMBYCIDAE) QL596.0C40D8.
E A J Duffy
434 P., LONDON, BRITISH MUSEUM (NATURAL HISTORY)
1968
Ceramhycidae, Physiology, Plants, Pupae, Research.

17376-68
INSECTS ATTACKING ROSE HIPS IN EUROPE.
O Eichhorn
Commonwealth Inst Biol Contr Tech Bull 8:83-102,MAP REF
Mar 1967 423.92 C733T
Insect pests, Rosa rubiginosa, Rose hips. Possihle agents of biological control of r. rubiginosa
Abstract

17377-68
COMPARATIVE APHID-TRANSMISSIBILITY OF BEAN YELLOW MOSAIC VIRUS FROM PEA AND BEAN CORRELATED WITH CYTOPLASMIC INCLUSIONS. (ABSTRACT).
I R Evans F W Zettler
Phytopathology 58(6):727-728
Jun 1968 464.8 P56
Aphis craccivora, Beans, Cytoplasm, Insect vectors, Myzus persicae, Peas, Virus diseases (plants), Yellow mosaic (beans).

17378-68
A COMPARISON OF SEASON-LONG COTTON-PEST-CONTROL PROGRAMS IN CALIFORNIA DURING 1966.

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17379-68

L A Falcon R Van Den Bosch C A Ferris L K Stromberg L K Etzel R E Stinner T F Leigh
J Econ Entomol 61(3):633-642 REF
Jun 1968 421 J822
Biochemistry, Cotton, Insect pests, Insecticides, Pest control, Temperature, Weather. Species were: Trichoplusia lygus hesperus, T. ni, Heliothis zea, Orius tristicolor, Collops vittatus, Nabis americoferus, Chrysopa carnea

17379-68
RESISTANCE OF BARLEY (HORDEUM VULGARE L. EMEND. LAM.) TO CEREAL LEAF BEETLE (OULEMA MELANOPUS L.).
S K Hahn
Crop Sci 8(4):461-464
Aug 1968 64.8 C883
Barley, Eggs, Genetics, Inheritance, Laboratories, Oulema melanopus, Research.

17380-68
THE ROLE OF SECONDARY PLANT SUBSTANCES IN THE FOOD SPECIFICITY OF THE COLORADO POTATO BEETLE.
T H Hsiao G Fraenkel
Entomol Soc Amer Ann 61(2):485-493 REF
15 Mar 1968 420 EN82
Caterpillars, Chemical control (insects), Chrysomelidae, Insect adaptation, Insect morphology, Insect nutrition, Leptinotarsa decemlineata, Plant composition, Plant pest resistance, Solanaceae.

17381-68
SELECTION AND SPECIFICITY OF THE COLORADO POTATO BEETLE FOR SOLANACEOUS AND NONSOLANACEOUS PLANTS.
T H Hsiao G Fraenkel
Entomol Soc Amer Ann 61(2):493-503 REF
15 Mar 1968 420 EN82
Asclepias syriaca, Asclepias tuberosa, Capsella hursa-pastoris, Caterpillars, Chrysomelidae, Insect adaptation, Insect morphology, Insect nutrition, Lactuca sativa, Leptinotarsa decemlineata, Plant composition, Solanaceae.

17382-68
ISOLATION OF PHAGOSTIMULATIVE SUBSTANCES FROM THE HOST PLANT OF THE COLORADO POTATO BEETLE.
T H Hsiao G Fraenkel
Entomol Soc Amer Ann 61(2):476-484 REF
15 Mar 1968 420 EN82
Chemical control (insects), Chrysomelidae, Insect behavior, Insect nutrition, Leptinotarsa decemlineata, Potatoes, Stimulants.

17383-68
OCCURRENCE OF HARMFUL INSECTS IN DIRECT SOWN PADDY FIELD IN WARMER REGIONS AND THEIR CONTROL. MAINLY ON THE ECOLOGY OF INSECTS WHICH CARRY PADDY VIRUS. TRANSL. 16911.
T Kayoji
17 P.
Field crops, Insect control, Insect ecology, Insect pests, Insect vectors, Rice, Transplanting, Virus diseases (plants). Translation from Agriculture horticulture. 39(5):785-790, 1964. translated by Kazuko Nagatomi.

17384-68
STUDIES ON THE ECOLOGY OF RICE GREEN CATERPILLAR. I.ON THE HABIT OF PROGRESS IN THE NORTH PART OF HOKKAIDO (KAMIKAWA AREA). II. ON THE ACTIVE TIME OF ADULTS BY NIGHT. III. ON THE RELATION BETWEEN THE ACTIVITY OF ADULTS BY NIGHT AND WEATHER. TRANSL. 16696.
H Kihata H Inouc
16 P.
Caterpillars, Insect behavior, Insect ecology, Insect pests, Light traps, Research, Rice, Tables (data), Weather. Translation from Ann. Rpt. Soc. Plant Protect. North japan. 15:87-93, 1964. translated by Takashi Ogawa.

17385-68
ECOLOGY AND CONTROL OF SMALL BROWN PLANTHOPPER (LAODELPHAX STRIATELLUS FALLEN). TRANSL. 16695.
R Kishimoto
12 P REF
Chemicals, Ecology, Hibernation, Insect control, Laodelphax striatellus, Morphology, Research, Rice, Transplanting. Tranlation from Shokuhutsu Bocki 20(3):126-130 translated by Takashi ogawa

17386-68
MICROBES AND TOXIC CHEMICALS IN THE STRUGGLE AGAINST PLANT PESTS. (JPRS 44,489) TRANSL. 16903.
N A Krasil Nikov
14 P. REF
26 Feb 1968
Bacteria, Bacterial diseases (plants), Biochemistry, Biological control (pests), Chemical control (pests), Fungus diseases (plants), Insect pests, Insect vectors, Pesticides, Plants, Toxins. Translation from Sel'skokhozyaystvennaya biologiya 6:857-860, 1967. issued by CFSTI.

17387-68
SEASONAL ABUNDANCE OF INSECT PESTS AND VIRUS DISEASES IN THE RICE FIELD OF SEEDLING CULTIVATION. TRANSL. 16906.
K Kumamoto
6 P.
Field crops, Insect pests, Plant injuries, Rice, Seedlings, Surveys, Temperature, Tillage, Virus diseases (plants), Weather. Translation from Assoc. Plant Protect. Kyushu Proc. 8: 33-35, 1962 translated by Takashi Ogawa

17388-68
EMERGENCE AND DAMAGE OF WHITE-BACK PLANTHOPPERS AND BROWN PLANTHOPPERS, AND DAMAGE-PREVENTING MEASURES. TRANSL. 16598.
E Kuno
16 P.
Chemical control (insects), Cicadellidae, Ecology, Environment, Insecticides, Plant injuries, Rice, Surveys. Translation from Agriculture and Horticulture 39(9):1411-1415, 1965. translated by Mary Ellen Rhoades

17389-68
A COMPARISON OF PREDATOR POPULATIONS IN COTTON UNDER DIFFERENT CONTROL PROGRAMS IN MISSISSIPPI.
M L Laster J R Brazzel
J Econ Entomol 61(3):714-719 REF
Jun 1968 421 J822
Cotton, Crops, Dosage, Geocoris, Insect control, Insect pests, Insecticide application, Insecticides, Oxyopes salticua, Population, Predaceous insects, Research.

17390-68
FALL ARMYWORM RESISTANCE IN PEARL MILLET.
D B Leuck C M Taliaferro R L Burton G W Burton M C Bowman
J Econ Entomol 61(3):693-695
Jun 1968 421 J822
Antibiosis, Breeding, Immunity, Pearlmillet, Plant extracts, Plant hardiness, Seedlings, Spodoptera frugiperda.

17391-68
EPIPHYTOLOGY OF ONION YELLOW DWARF.
R Jr. Louie
Diss Abstr Sect B 28(10):3961B
Apr 1968 Z5055.U49D53
Apididae, Economics, Ephiphytology, Hibernation, Insect control, Insect dissemination, Insect traps, Maleic hydrazide, Plant disease control, Plant disease transmission, Seedlings, Virus diseases (plants), Yellow dwarf (onions).

17392-68
EFFECTIVENESS AND PERSISTENCE OF LOW DOSAGES OF AZINPHOSMETHYL FOR CONTROL OF THE CODLING MOTH.
H F Madsen K Williams
J Econ Entomol 61(3):878-879
Jun 1968 421 J822
Apples, Azinphosmethyl, Biochemistry, Carpocapsa pomonella, Chemical control (insects), Dosage, Fruit, Insect pests, Insecticide application, Insecticides, Leaves, Spraying.

17393-68
OBSERVATIONS ON INSECTS ATTACKING WILD RICE IN MANITOBA.
J C E Melvin
Entomol Soc Manitoba Proc 22:6-11
1966 420 EN88
Apamea apamiformis, Beneficial insects, Insect biology, Insect pests, Wildrice.
Abstract

17394-68
EFFECT OF AUTUMN INSECTICIDE APPLICATION ON THE CONTROL OF THE GREEN RICE LEAFHOPPER OF THE LAST GENERATION. TRANSL. 16918.
T Miyazawa T Yanagi
4 P.
Cicadellidae, Insect vectors, Insecticide application, Insecticides, Plant disease transmission, Rice, Temperature, Virus diseases (plants), Weather, Yellow dwarf (rice). Translation from Kanto-Tosan Plant Protect. Soc. Proc. 10:46, 1963

17395-68
ELECTROMAGNETIC ENERGY. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.
S O Nelson
89-145 REF NEW YORK, ACADEMIC PRESS
1967
Electromagnetic waves, Lethal factors, Light traps, Pest control, Photoperiodism, Radiation, Ultraviolet rays.

17396-68
THE DISTRIBUTION OF RICE STEM BORER IN THE RICE STUBBLES, WITH SPECIAL REFERENCE TO THE POSSIBILITY OF ITS DISPERSION FROM THE FRAME FOR DESICATING REAPED RICE PLANTS. TRANSL. 16893.
A Otake S Oda
9 P.
Hibernation, Insect dissemination, Insects, Laboratories, Larvae, Plant injuries, Research, Rice. Translation from Assoc. Plant Protect. Hukuriku Proc. 10:9-11 translated by Y. Ito

17397-68
CHANGES IN RELATIVE VIRUS CONCENTRATION IN ENDRIA INIMICA IN RELATION TO ITS ABILITY TO TRANSMIT WHEAT STRIATE MOSAIC VIRUS.
Y C Paliwal
Phytopathology 58(3):386-387
Mar 1968 464.8 P56
Endria inimica, Insect vectors, Striate mosaic (wheat), Temperature, Wheat.

17398-68
ESTABLISHMENT OF A NURSERY FOR EVALUATION OF RESISTANCE OF STRAINS OF WHEAT TO THE WHEAT STEM SAWFLY.
L K Peterson H McKenzie N D Holmes
J Econ Entomol 61(3):836-838
Jun 1968 421 J822
Cephus cinctus, Immunity, Insect traps, Mortality, Nurseries, Plant hardiness, Temperature, Triticum aestivum, Weather, Wheat.

17399-68
A PRELIMINARY STUDY OF CORN STUNT VECTOR POPULATIONS IN RELATION TO CORN PLANTING DATES IN MISSISSIPPI. NOTES ON DISEASE INCIDENCE AND SEVERITY.
H N Pitre
J Econ Entomol 61(3):847-849 REF
Jun 1968 421 J822

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Graminella nigrifrons, Insect vectors, Planting, Population, Research, Stunt (corn), Temperature, Virus diseases (plants), Weather.

17400-68
PRELIMINARY DATA ON THE ECOLOGY OF THE COFFEE WORM ARAECERUS FASCICULATUS DE GEER. (POR)
D Puzzi H F Pereira
Biologico 33(5):97-101
May 1967 442.8 B529
Araccerus fasciculatus, Coffee, Curculionidae, Insect ecology.

17401-68
PERCENTAGE OF VIRULIFEROUS LEAFHOPPERS COLLECTED FROM RICE FIELDS AFFECTED WITH YELLOW DWARF. (CONT.) TRANSL. 16916.
A Shinkai
5 P.
Cicadellidae, Insecticides, Insects, Research, Rice, Sampling (statistics), Yellow dwarf (rice). Translation from Kanto-Tosan Plant Protect. Soc. Proc. 8:12 translated hy Kenji Nishimura

17402-68
INTEGRATED CONTROL. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.
R F Smith R Van Den Bosch
295-340 REF NEW YORK, ACADEMIC PRESS
1967
Crop yields, Ecology, Injuries, Insect evolution, Insecticides, Integrated control (insects), Population statistics.

17403-68
CONSTITUENTS OF THE COTTON BUD. XI. STUDIES OF A FEEDINGSTIMULANT COMPLEX FROM FLOWER PETALS FOR THE BOLL WEEVIL.
R F Struck J Frye Y F Shealy P A Hedin A C Thompson
J Econ Entomol 61(3):664-667
Jun 1968 421 J822
Anthonomus grandis, Chromatography, Feeding, Lead acetate, Plant hudding, Plant extracts, Precipitation, Research, Stimulants, Upland cotton.

17404-68
STUDIES ON THE OPTIMUM CONCENTRATION OF SPRAY LIQUID OF DIPTEREX FOR SMALL RICE LEAF MINER CONTROL. TRANSL. 16728.
S Takano S Iwamoto
4 P.
Chemical control (insects), Insecticides, Research, Rice, Spraying, Surveys, Trichlorfon. Translation from Kanto-Tosan Plant Protect. Soc. 8:45 translated hy h. Kazano

17405-68
MICROBIAL PESTICIDES. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.
Y Tanada
31-88 REF NEW YORK, ACADEMIC PRESS
1967
Biological transport, Chemical control (insects), Environment, Parasitic insects, Pest control, Pesticides, Toxicology.

17406-68
MORPHOLOGICAL AND BIOLOGICAL STUDIES OF THYSANOPTEROUS INSECTS ON RICE PLANTS. TRANSL. 16727.
T Tanaka
11 P.
Biology, Food plants, Hihernation, Insect pests, Morphology, Plant injuries, Research, Rice, Thysanoptera. Translation from Oyo Konchu. 7(3):125-133

17407-68
INTRA-SPECIFIC MECHANISMS WITH SPECIAL REFERENCE TO APHID POPULATIONS.
M J Way
Roy Entomol Soc London Symp 4:18-36 REF
1968 420 R81
Aphididae, Crops, Hibernation, Insect hehavior, Insect control, Insect migration, Lahoratories, Physiology, Population statistics, Research.

17408-68
ANTIFEEDANTS. IN: KILGORE, W. W. AND DOUTT, R. L., PEST CONTROL; BIOLOGICAL, PHYSICAL, AND SELECTED CHEMICAL METHODS. SB950.0K5.
D P Wright
287-293 REF NEW YORK, ACADEMIC PRESS
1967
Carbamates, Crop yields, Extracts, Histology, Pest control.

17409-68
APPENDIX TO PEST OF CROPS IN WARM CLIMATES AND THEIR CONTROL. V. CONTROL MEASURES (APPENDIX TO SUPPLEMENT 7, 2ND ENLARGED AND REVISED EDITION). 423 W99AE.
R Wyniger
162P
1968
Chemicals, Climate, Crops, Insect control, Insect pests.

NEMATODES

17410-68
LESION NEMATODE INJURY TO CABBAGE. (ABSTRACT).
J R Acedo R A Rohde
Nematologica 14(1):1
1968 436.8 N342
Cahhage, Histology, Nematodes, Phenol compounds, Plant injuries, Pratylenchus penetrans.

17411-68
INHERITANCE OF RESISTANCE TO HETERODERA AVENAE IN BARLEY.
K Andersen S Andersen
Nematologica 14(1):128-130
1968 436.8 N342
Barley, Genes, Heterodera avenae, Nematodes, Plant genetics, Plant nematode resistance, German summary

17412-68
VARIATION IN INFECTION ABILITY OF CYSTS OF HETERODERA AVENAE.
K Andersen
Nematologica 14(1):149-150
1968 436.8 N342
Cysts, Heterodera avenae, Larvae, Nematodes, Soils.

17413-68
ELECTRON MICROSCOPIC OBSERVATIONS OF CATENARIA SP., A NEMATOPHAGOUS FUNGUS. (ABSTRACT).
S Badgett W Birchfield
Phytopathology 58(6):725
Jun 1968 464.8 P56
Catenaria, Electron microscopes, Fungi, Microscopy, Nematodes, Parasitism.

17414-68
ASSAYS OF NATURAL POPULATIONS OF CERTAIN PLANT-PARASITE NEMATODES AS INFLUENCED BY STORAGE CONDITIONS AND EXTRACTION PROCEDURES. (ABSTRACT).
K R Barker C J Nusbaum W F Congleton
Nematologica 141(3):3
1968 436.8 N342
Nematodes, Parasitism, Plant extracts, Population statistics, Soil temperature, Storage.

17415-68
SEASONAL POPULATION DYNAMICS OF BELONOLAIMUS LONGICAUDATUS, MELOIDOGYNE INCOGNITA, PRATYLENCHUS ZEAE, TRICHODORUS CHRISTIEI AND TYLENCHORHYNCHUS CLAYTONI. (ABSTRACT).
K R Barker
Nematologica 14(1):2-3
1968 436.8 N342
Belonolaimus longicaudatus, Demography, Ecology, Meloidogyne incognita, Nematodes, Pratylenchus zeae, Trichodorus christiei, Tylenchorhynchus claytoni.

17416-68
INOCULATION TRAIL WITH MELOIDOGYNE JAVANICA ON OKRA (ABELMOSCHUS ESCULENTUS).
R B S Birat
Nematologica 14(1):155-156
1968 436.8 N342
Injections, Larvae, Meloidogyne javanica, Microscopy, Nematodes, Okra, Soils, Tomatoes.

17417-68
SOME EFFECTS OF PRATYLENCHUS BRACHYURUS UPON SPANISH PEANUTS. (ABSTRACT).
T E Boswell
Nematologica 14(1):3-4
1968 436.8 N342
Fungicides, Nematocides, Nematodes, Peanuts, Pentachloronitrobenzene, Plant injuries, Pratylenchus brachyurus.

17418-68
TAXONOMY LIFE CYCLE AND HOST RANGE OF HETERODERA MEXICANA N. SP. (NEMATODA HETERODERIDAE).
V A Campos
Diss Abstr Sect B 28(11):4375B
May 1968 Z5055.U49D53
Cysts, Greenhouse culture, Heterodera mexicana, Heterodera rostochiensis, Heterodera tabacum, Morphology, Nematodes, Potatoes, Taxonomy, Temperature, Time.

17419-68
SUPPLY OF OXYGEN DURING HATCHING OF THE NEMATODE MELOIDOGYNE JAVANICA UNDER NON-COMPETITIVE CONDITIONS.
N Collis-George H R Wallace
Australian J Biol Sci 21(1):21-35 REF
Feb 1968 442.8 AU72
Animal physiology, Competition, Hatch, Larvae, Meloidogyne javanica, Nematodes, Oxygen.

17420-68
VECTOR-EFFICIENCY OF XIPHINEMA INDEX IN THE TRANSMISSION OF GRAPEVINE FANLEAF VIRUS.
S Das D J Raski
Nematologica 14(1):55-62 REF
1968 436.8 N342
Fanleaf (grapes), Grapes, Nematode vectors, Soil temperature, Virus diseases (plants), Xiphinema index. German summary

17421-68
OCCURRENCE OF HETERODERA GLYCINES FROM THE GOLDEN ISLAND, GIZA, U. A. R.
K A Diab
Nematologica 14(1):148
1968 436.8 N342
Cowpeas, Heterodera glycines, Meloidogyne incognita, Nematodes, Plant galls, Roots.

17422-68
THE UTILITY OF POLYACRYLAMIDE-GEL ELECTROPHORESIS FOR DISTINGUISHING BETWEEN SPECIES OF MELOIDOGYNE AND SHOWING TAXONOMIC RELATIONSHIPS. (ABSTRACT).
D W Dickson J N Sasser D Huisingh
Nematologica 141(1):5
1968 436.8 N342
Electrophoresis, Enzymes, Meloidogyne, Nematodes, Parasitism, Proteins, Taxonomy.

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17423-68
CLUMPING OF THE PLANT PARASITIC NEMATODE DITYLENCHUS DIPSACI IN WATER.
C C Doncaster J M Webster
Nematologica 14(1):131-136
1968 436.8 N342
Behaviorism, Ditylenchus dipsaci, Parasitism, Plant nematodes, Water. German summary

17424-68
THERMOTROPIC RESPONSE OF PRATYLENCHUS PENETRANS AND DITYLENCHUS DIPSACI. (ABSTRACT).
M A El-Sherif W F Mai
Nematologica 14(1):5-6
1968 436.8 N342
Agar, Biochemistry, Ditylenchus dipsaci, Heat, Nematodes, Pratylenchus penetrans, Temperature.

17425-68
RESISTANCE OF CUCUMIS SPECIES TO ROOT-KNOT NEMATODE, MELOIDOGYNE INCOGNITA ACRITA. (ABSTRACT).
G Fassulintis
Nematologica 14(1):6
1968 436.8 N342
Cucumbers, Meloidogyne incognita, Nematodes, Plant nematode resistance, Roots.

17426-68
PHYTOPATHOLOGICAL CONSEQUENCES OF CHANGING AGRICUTURAL METHODS. II. CEREALS.
W Feckes
Neth J Plant Pathol 73(SUP.1):97-115
1967 464.8 T44
Barley, Mechanization, Nematodes, Oats, Plant breeding, Plant disease control, Plant pest control, Plant protection, Septoria nodorum, Wheat.

17427-68
ON THE CLASSIFICATION AND LIFE HISTORY OF FERGUSOBIA CURRIEI (SPHAERULARIIDAE: NEMATODA). (ABSTRACT).
J M Fisher W R Nickle
Nematologica 14(1):6-7
1968 436.8 N342
Eucalyptus, Eucalyptus camaldulensis, Fergusobia curriei, Life cycle, Nematodes, Parasitism, Taxonomy.

17428-68
POPULATION PATTERNS OF NEMATODES IN LAKE CHAMPLAIN. (ABSTRACT).
K D Fisher
Nematologica 14(1):7
1968 436.8 N342
Ecology, Nematodes, Parasitism, Population statistics, Temperature.

17429-68
POPULATION FLUCTUATION OF THREE PRATYLENCHUS SPP. ON PEACH UNDER CENTRAL GEORGIA CONDITIONS. (ABSTRACT).
P Fliegel A M Golden
Nematologica 14(1):7-8
1968 436.8 N342
Nematodes, Parasitism, Peaches, Population statistics, Pratylenchus brachyurus, Pratylenchus vulnus, Pratylenchus zeae.

17430-68
ECOLOGY AND VECTOR RELATIONSHIP OF LONGIDORUS MACROSOMA HOOPER. (GE)
R Fritzsche
Biol Zentralbl 87(2):139-146
Mar 1968 442.8 B523
Animal vectors, Ecology, Nematodes, Plant diseases, Rhizosphere, Virus diseases (plants). English and German summaries

Abstract

17431-68
HETERODERA CRUCIFERA FRANKLIN 1945, BRASSICA ROOT EELWORM IN YUGOSLAVIA. (CZ)
G Grujicic D Krnjaic
Zastita Bilja 12(91-92):309-313
1966 464.8 Z1
Brassica, Cysts, Eggs, Heterodera cruciferae, Larvae, Nematodes, Vegetables. English summary

17432-68
THE RESPONSE OF A POPULATION OF HETERODERA ROSTOCHIENSIS TO CROPPING ROTATIONS THAT INCLUDE RESISTANT POTATOES. (ABSTRACT).
M B Harrison
Nematologica 14(1):8
1968 436.8 N342
Crop rotation, Heterodera rostochiensis, Nematodes, Plant nematode resistance, Population statistics, Potatoes.

17433-68
EFFECT OF ORGANIC AND INORGANIC NITROGEN ON NEMATODE POPULATIONS FEEDING ON TURF. (ABSTRACT).
C M Heald G W Burton
Nematologica 14(1):8
1968 436.8 N342
Ammonium nitrate, Belonolaimus longicaudatus, Cynodon dactylon, Feeding, Nematodes, Nitrogen, Population statistics, Turf.

17434-68
INFLUENCE OF SOIL MOISTURE ON PRATYLENCHUS PENETRANS.
P F Kable W F Mai
Nematologica 14(1):101-122 REF
1968 436.8 N342
Alfalfa, Nematodes, Population statistics, Pratylenchus penetrans, Roots, Soil moisture. German summary

17435-68
OVERWINTERING OF PRATYLENCHUS PENETRANS IN A SANDY LOAM AND A CLAY LOAM SOIL AT ITHACA, NEW YORK.
P F Kable W F Mai
Nematologica 14(1):150-152
1968 436.8 N342
Clay soils, Fruit, Loam, Nematodes, Pratylenchus penetrans, Roots, Sandy soils.

17436-68
RESEARCH ON THE OATS-NEMATODE PROBLEM. (GE)
E Lucke H Weber
Gesunde Pflanzen 19(8):167-169
Aug 1967 464.8 G33
Grain, Nematodes, Oats, Parasitism, Plant diseases, Research.

17437-68
THE DYNAMICS OF THE PERMEATION OF NEMATODES BY NEMATODES AND OTHER CHEMICALS.
C F Marks
Diss Abstr Sect B 28(10):3961B
Apr 1968 Z5055.U49D53
Agar, Aphelenchus avenae, Biochemistry, Chemicals, Nematocides, Nematodes, Permeability, Rhizoctonia solani.

17438-68
MODE OF REPRODUCTION OF HETERODERA TABACUM. (ABSTRACT).
L I Miller B J Gray
Nematologica 14(1):10-11
1968 436.8 N342
Hermaphroditism, Heterodera tabacum, Injections, Larvae, Nematodes, Physiology, Reproduction, Roots, Solanum carolinense.

17439-68
THE ROLE OF CALCIUM IN RESISTANCE OF ALFALFA TO DITYLENCHUS DIPSACI. (ABSTRACT).
D Muisingh R T Sherwood
Nematologica 14(1):8-9
1968 436.8 N342
Alfalfa, Calcium, Ditylenchus dipsaci, Enzymes, Nematodes, Nutrient solutions (plants), Plant nematode resistance.

17440-68
STUDIES ON THE FEEDING AND REPRODUCTION OF SEVEN MYCOPHAGOUS NEMATODES ON RHIZOCTONIA, FUSARIUM, AND VERTICILLIUM. (ABSTRACT).
W R Nickle P McIntosh
Nematologica 14(1):11-12
1968 436.8 N342
Culture media, Feeding, Fungi, Fusarium solani, Injections, Nematodes, Physiology, Reproduction, Rhizoctonia solani, Verticillium albo-atrum.

17441-68
MIGRATORY ENDOPARASITIC NEMATODES REARED ON CARROT DISCS.
J H O'Bannon A L Taylor
Phytopathology 58(3):385
Mar 1968 464.8 P56
Carrots, Culture media, Ditylenchus destructor, Nematodes, Parasitism, Pratylenchus brachyurus, Radopholus similis.

17442-68
OBSERVATIONS ON SEASONAL POPULATION CHANGES OF TYLENCHULUS SEMIPENETRANS AND THE INFLUENCE OF TEMPERATURE ON EGG HATCH. (ABSTRACT).
J H O'Bannon
Nematologica 14(1):12-13
1968 436.8 N342
Citrus, Nematodes, Physiology, Population statistics, Temperature, Time, Tylenchulus semipenetrans.

17443-68
THE INFLUENCE OF SYSTEMIC PLANT GROWTH SUBSTANCES ON THE GALLS INDUCED BY THE ROOT KNOT NEMATODE MELOIDOGYNE JAVANICA.
D Orion G Minz
Phytopathology 58(3):384
Mar 1968 464.8 P56
Meloidogyne javanica, Nematodes, Plant galls, Plant injuries, Plant regulators, Root knot (tomatoes), Roots, Tomatoes.

17444-68
THE EFFECT OF CERTAIN CHEMICAL SOIL TREATMENTS AND METHODS OF APPLICATION IN THE CONTROL OF MELOIDOGYNE INCOGNITA ACRITA AND EFFECT OF THESE TREATMENTS ON FLUE-CURED TOBACCO YIELD AND VALUE. (ABSTRACT).
W W Osborne C Harris L M Harrison W F Brown R L Shaw
Nematologica 14(1):13-14
1968 436.8 N342
Agricultural economics, Chemical control (nematodes), Crop yields, Flue-cured tobacco, Meloidogyne incognita acrita, Nematocides, Nematodes, Pesticide application, Soil chemistry, Soils, Tobacco.

17445-68
MULTIPLICATION OF THE POTATO CYST-NEMATODE (HETERODERA ROSTOCHIENSIS) IN LYCOPERSICON SPP.
A V Palo
Nematologica 14(2):314-315
21 Mar 1968 436.8 N342
Ecology, Heterodera rostochiensis, Plant nematode resistance, Roots, Tomatoes.

17446-68
EFFECT OF AN APHELENCHOIDES SPECIES ON THE GROWTH OF MYCORRHIZAL FUNGI. (ABSTRACT).
J W Riffle
Nematologica 14(1):14
1968 436.8 N342
Agar, Aphelenchoides, Fungi, Mycorrhiza, Nematodes, Physiology.

17447-68
DEVELOPMENT OF THE REPRODUCTIVE SYSTEM IN SOME PRATYLENCHUS SPECIES. (ABSTRACT).
J Roman

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Nematologica 14(1):14
1968 436.8 N342
Morphology, Nematodes, Physiology, Pratylenchus, Reproduction, Reproductive organs.

17448-68
THE FORMATION OF GIANT CELLS IN TOMATO ROOTS INFECTED BY THE POTATO CYST NEMATODE, HETERODERA ROSTOCHIENSIS AND THE GREY STERILE FUNGUS, G.S.F..
A K Roy
Nematologica 14(2):313-314
21 Mar 1968 436.8 N342
Fungus diseases (plants), Heterodera rostochiensis, Nematodes, Plant cytology, Plant ecology, Tomatoes.

17449-68
THE EFFECT OF NINE PARASITIC NEMATODE SPECIES ON GROWTH, YIELD AND QUALITY OF PEANUTS AS DETERMINED BY SOIL FUMIGATION AND CORRELATION OF NEMATODE POPULATIONS WITH HOST RESPONSE. (ABSTRACT).
J N Sasser J C Wells L A Nelson
Nematologica 14(1):15
1968 436.8 N342
Agricultural economics, Crop yields, Nematodes, Parasitism, Peanuts, Plant physiology, Population statistics, Soil fumigation.

17450-68
POPULATION STUDIES OF PLANT-PARASITIC NEMATODES AROUND SUGARCANE ROOTS IN NYANZA PROVINCE, KENYA.
R L P W Schoemaker
Nematologica 14(2):295-299
21 Mar 1968 436.8 N342
Plant ecology, Plant nematodes, Population, Pratylenchus, Soil fauna, Sugarcane. French summary

17451-68
GREENHOUSE EXPERIMENTS WITH BAITS FOR CONTROL OF THE BLACK CUTWORM.
R E Sechriest
J Econ Entomol 61(3):591-593
Jun 1968 421 J822
Agrotis ipsilon, Biochemistry, Corn, Greenhouse culture, Insecticides, Larvae, Seedlings, Toxins. Chemicals used were: trichlorfon, American cyanamid CL47470, abate, ethyl parathion, mirex, TDE, and carbaryl.

17452-68
THE INFLUENCE OF THE STAGE OF DEVELOPMENT OF LESION NEMATODES ON POPULATION DYNAMICS AND SUBSEQUENT HOST RESPONSE. (ABSTRACT).
C J Southards
Nematologica 14(1):15-16
1968 436.8 N342
Beans, Corn, Demography, Morphology, Nematodes, Physiology, Tobacco.

17453-68
EFFECT OF SOME PHYSICAL FACTORS ON VARIABILITY WITHIN THE X. AMERICANUM GROUP. (ABSTRACT).
A C Tarjan
Nematologica 14(1):16
1968 436.8 N342
Ecology, Nematodes, Population, Rainfall, Temperature, Xiphinema americanum.

17454-68
QUANTITATIVE EVALUATION OF THE EFFECT OF PRATYLENCHUS PENETRANS ON ROOT DEVELOPMENT OF SEEDLING SOYBEANS UNDER DEFINED CONDITIONS. (ABSTRACT).
P L Taylor J M Ferris V R Ferris
Nematologica 14(1):17
1968 436.8 N342
Nematodes, Plant injuries, Plant physiology, Pratylenchus penetrans, Roots, Seedlings, Soybeans.

17455-68
SEPARATION OF EGGS OF PRATYLENCHUS PENETRANS FROM PLANT TISSUE CULTURE BY SUCROSE GRADIENT CENTRIFUGATION. (ABSTRACT).
B Thistlethwayte
Nematologica 14(1):17-18
1968 436.8 N342
Centrifugation, Nematodes, Plants, Pratylenchus penetrans, Sucrose, Tissue culture.

17456-68
A SURVEY OF PLANT-PARASITIC NEMATODES AROUND ROOTS OF GREAT MILLET (SORGHUM VULGARE) FROM RAJASTHAN, INDIA.
M G Tikyani S Khera
Plant Dis Rep 52(5):396-398,MAP
May 1968 1.9 P69P
Insect vectors, Nematodes, Parasitic insects, Parasitic plants, Plant diseases, Roots, Soil sampling, Sorghum.

17457-68
THE PERMEABILITY OF THE CYST OF THE TOBACCO ROOT EELWORM, HETERODERA TABACUM.
S E Wihrheim P M Miller A E Dimond
Phytopathology 58(6):843-847 REF
Jun 1968 464.8 P56
Autoradiography, Cysts, Heterodera tabacum, Nematodes, Roots, Tobacco.

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17458-68
FACTORS AFFECTING THE ACTIVITY OF EPTC (ETHYL-N,N-DI-NPROPYL THIOLCARBAMATE).
J C Cialone
Diss Abstr Sect B 28(10):3953B-3954B
Apr 1968 Z5055.U49D53
Biochemistry, Biological assay, Chemical control (weeds), Chemical reactions, Ethyl N,N-dipropylthiolcarbamate, Research, Soil horizons, Soil moisture, Vapors.

17459-68
HERBICIDES ARE TAKING OVER AQUATIC WEED CONTROL.
Farm Chem 130(18):87,90-92
Oct 1967 57.8 AM3
Alternanthera philoxeroides, Aquatic weeds, Carbon disulfide, Chemical control (weeds), Diuron, Herbicides, Methyl bromide.

17460-68
RESPONSE OF CONIFER SEEDLINGS AND WEEDS TO SEEDBED FUMIGANTS.
R Grover
Can J Plant Sci 48(2):189-196
Mar 1968 450 C16
Allyl alchohol, Chemical control (weeds), Chloropicrin, Dimethyltetrahydro-1,3,5-2H-thiadiazine-2-thione, 3,5-, Fumigants, Methyl bromide, Picea glauca, Picea pungens, Pinus sylvestris, Seedbeds, Sodium N-methyldithiocarbamate, Soil fumigation.

17461-68
CONTROL OF DETRIMENTAL WEEDS WITH STAM F-34 IN NONIRRIGATED RICE WITH DIFFERENT SPACING OF THE PLANTS. (POR

L Leiderman de D M Souza dos C A L Santos J M Araujo
Biologico 33(5):102-106
May 1967 442.8 B529
Herbicides, Plant protection, Propanil, Rice, Weed control.

17462-68
CONTROL OF UNDESIRABLE GRASSES OF MANOBI BY THE PREEMERGENCE AND PREPLANTING APPLICATION OF HERBICIDES. (POR)

C A Lobato dos Santos I. Leiderman W Sichmann
Biologico 33(11):244-250
Nov 1967 442.8 B529
Chemical control (weeds), Dichlorophenyl p-nitrophenyl ether, 2,4-, Herbicides, Methyl-4-chlorophenoxy)butyric acid, 4-(2-, Peanuts, Pebulate, Prometryne. Portugese and English summaries
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17463-68
METHOD FOR THE CONTROL OF UNDESIRABLE VEGETATION WITH 3,5,6-SUBSTITUTED URACILS. PATENT 3,374,083.
H M Loux
Us Patent Office Offic Gaz 848(3):751
19 Mar 1968 156.65 OF2
Chemical control (weeds), Herbicides, Patents, Pyrimidines, Uracils.

17464-68
COMPARED TESTS ON THE RESISTANCE OF VARIOUS TROPICAL TYPES OF WOOD TO WORM-ATTACK ON THE COAST OF WEST AFRICA. (TT 8544) TRANSL. 16896.
P Rancurel
15 P.
1967
Immunity, Nematodes, Research, Tables (data), Tree injuries, Wood. Translation from Bois et Forets des Tropiques 106:27-39, mar.-Apr. 1966. issued by CSIRO.

17465-68
FLAME, ALONE AND IN COMBINATION WITH HERBICIDES, FOR WEED CONTROL IN CORN, POTATOES, AND SEVERAL COLE CROPS.
H P Wilson
Diss Abstr Sect B 28(10):3958B
Apr 1968 Z5055.U49D53
Atrazine, Broccoli, Cabbage, Cauliflower, Chemical control (weeds), Corn, Herbicides, Histology, Linuron, Pesticide application, Potatoes, Weed burners, Weed control.

OTHER PESTS

17466-68
INTERNATIONAL DISPERSAL OF NEMATODES.
S Bingefors
Neth J Plant Pathol 73(SUP.1):44-60 REF
1967 464.8 T44
Biological transport, Ecology, Environment, Nematodes, Parasitism, Plant protection, World agricultural situation.

17467-68
AN ANALYSIS OF BLACKBIRD FLOCK FEEDING BEHAVIOR.
M I Dyer
Can J Zool 45(5):765-772,MAP
Sep 1967 470 C16D
Birds, Blackbirds, Corn, Feeding, Sweetcorn.
Abstract

LIVESTOCK PROTECTION

17468-68
EFFECT OF DIET ON METABOLISM OF FENTHION IN ANIMALS.
A Begum
Diss Abstr Sect B 28(10):4165B
Apr 1968 Z5055.U49D53
Biochemistry, Diet, Fenthion, Laboratory animals, Metabolism, Metabolites, Rabbits, Radioactivity, Rats.

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17469-68
EFFECT OF GLYCINE AND SERINE ON THE METABOLISM OF METHIONINE. (ABSTRACT).
N J Benevenga A E Harper
Fed Amer Soc Exp Biol Fed Proc 27(2):252
Mar 1968 442.9 F31P
Animal nutrition, Biochemistry, Diet, Glycine, Metabolism, Methionine, Rats, Serine.

17470-68
THE DYNAMICS OF ANTIBODY AGAINST EIMERIA TENELLA UNDER THE FLUORESCENT MICROSCOPE.
Z Cerna
Folia Parasitol 14(1):13-18
1967 436.8 C33
Antibodies, Antigens, Chickens, Eimeria tenella, Fluorescence microscopes, Quantitative analysis.

17471-68
EFFECT OF A LATHYROGEN ON OXYGEN CONSUMPTION AND C1402 RESPIRATORY PATTERN OF C14-LABELED AMINO ACIDS IN DEVELOPING CHICK EMBRYOS. (ABSTRACT).
J J Clemmons
Fed Amer Soc Exp Biol Fed Proc 27(2):412
Mar 1968 442.9 F31P
Amino acids, Animal metabolism, Animal respiration, Carbon dioxide, Eggs, Embryology, Lathyrism, Lathyrogen, Lysine, Oxygen, Radioactive tracers, Research.

17472-68
THE EFFECT OF FEEDING A LOW LYSINE DIET TO CHICKS AT FOUR WEEKS OF AGE. (ABSTRACT).
J R Couch J Trammell F M Farr C R Creger
Fed Amer Soc Exp Biol Fed Proc 27(2):251
Mar 1968 442.9 F31P
Agricultural research, Animal nutrition, Biochemistry, Chicks, Diet, Lysine.

17473-68
RESISTANCE OF CATTLE TO CATTLE TICK, BOOPHILUS MICROPLUS. 1. THE DEVELOPMENT OF RESISTANCE TO EXPERIMENTAL INFESTATION.
R W Hewetson J Nolan
Australian J Agr Res 19(2):323-333
Mar 1968 23 AU783
Boophilus microplus, Cattle, Climate, Immunity, Insect eggs, Zebu cattle.

Abstract: There was a regression of adult female ticks becoming replete with infestion up to the fourth infestation. Egg-laying was not affected by a developing resistance, but the fertility of eggs from female egg-laying ticks was.

17474-68
THE BIOLOGICAL HALF LIFE OF PROGESTERONE IN THE PERIPHERAL BLOOD OF COWS. (JA)
T Imori
Jap J Vet Sci 29(4):201-208 REF
Aug 1967 41.8 J27
Biology, Blood, Dairy cattle, Hormones, Injections, Progesterone, Radioactivity, Radiochemistry.

Abstract: cows injected at different luteal stages of the ovarian cycle and in pregnancy.

17475-68
EFFECTS OF LATHYROGENS AND NON-LATHYROGENS ON CHICK EMBRYO OXYGEN CONSUMPTION WHEN INJECTED ONTO VARIOUS SITES. (ABSTRACT).
R J Malvesta
Fed Amer Soc Exp Biol Fed Proc 27(2):412
Mar 1968 442.9 F31P
Animal respiration, Beta-aminopropionitrile, Chicks, Eggs, Injections, Lathyrism, Oxygen.

17476-68
QUANTITATIVE ANALYSIS OF THE SOLUBLE ANTIGENS OF BIOTYPES OF BRUCELLA ABORTUS.
L K Nagy
Res Vet Sci 9(3):197-201 REF
May 1968 41.8 R312
Acetone, Agar, Antigens, Bacteria, Brucella abortus, Cells, Extracts, Immunization, Quantitative analysis, Rabbits.

17477-68
BLOOD CONCENTRATION OF CHLORAMPHENICOL IN HORSES AFTER INTRAMUSCULAR OR ORAL ADMINISTRATION.
S Oh-ishi
Jap J Vet Sci 30(1):25-28
Feb 1968 41.8 J27
Blood, Chloramphenicol, Horses, Metabolites, Microbiology, Mouth, Muscles, Serological tests, Tissues, Urine. Japanese summary

17478-68
EFFICACY STUDIES ON A NEW PROCESSED. I. MICRON REFINED PHENOTHIAZINE AGAINST GASTRO-INTESTINAL NEMATODES IN FEEDER LAMBS.
D L Peardon
Res Vet Sci 9(3):202-208 REF
May 1968 41.8 R312
Biochemistry, Dosage, Drug therapy, Gastrointestinal system, Haemonchus contortus, Lambs, Nematodes, Parasitism, Phenothiazine, Research.

17479-68
EFFECTS OF A POTASSIUM DEFICIENCY ON CALCIFICATION OF BONE IN CHICKS.
K E Rinehart J C Rogler W R Featherston
J Nutr 96(2):231-235
Oct 1968 389.8 J82
Bone diseases, Calcification (physiological), Chickens, Deficiency diseases, Feeding, Isotopes, Potassium, Sodium.

17480-68
EFFECTS OF CYCLOHEXIMIDE (CHX) ON DNA AND PROTEIN SYNTHESIS IN RAT LIVER. (ABSTRACT).
K Tornheim R G O'Dell L Prosky
Fed Amer Soc Exp Biol Fed Proc 27(2):415
Mar 1968 442.9 F31P
Biochemistry, Cycloheximide, Deoxyribonucleic acid, Leucine, Liver, Protein synthesis, Rats, Ribonucleic acid.

17481-68
FOOD HABITS OF THE PACIFIC MOUNTAIN BEAVER , APLODONTIA RUFA PACIFICA MERRIAM.
E H Voth
Diss Abstr Sect B 28(11):4372
May 1968 Z5055.U49D53
Aplodontia rufa pacifica, Beavers, Food, Seedlings, Tree injuries.

DISEASES

17482-68
THE MORPHOLOGICAL CHARACTERISTICS OF AFRICAN SWINE FEVER VIRUS AND ITS RESEMBLANCE TO TIPULA IRIDESCENT VIRUS.
J D Almedida A P Waterson W Plowright
Arch Gesamte Virusforsch 20(3):392-396 REF
1967 448.3 AR23
African swine fever virus, Morphology, Myxoviruses, Tipula iridescent virus, Virology.

17483-68
ELECTRON MICROSCOPY OF IMMUNE DISRUPTION OF LEPTOSPIRES: ACTION OF COMPLEMENT AND LYSOZYME.
D L Anderson R C Johnson
J Bacteriol 95(6):2293-2309 REF
Jun 1968 448.3 J82
Antibodies, Complement, Electron microscopy, Immunology, Leptospira, Muramidase.

Abstract

17484-68
INFLUENCE OF DUST AND AMMONIA ON THE DEVELOPMENT OF AIR SAC LESIONS IN TURKEYS.
D P Anderson R R Wolfe F L Cherms W E Roper
Amer J Vet Res 29(5):1049-1058
May 1968 41.8 AM3A
Air sacs, Ammonia, Animal diseases, Dust (soil), Mycoplasma, Mycoplasma melcagridis, Turkeys.

17485-68
NUCLEOSIDE PHOSPHORYLASE AND XANTHINE DEHYDROGENASE IN DEDEVELOPMENT OF NORMAL AND DYSTROPHIC CHICKENS. (ABSTRACT).
P Arslan I M Weinstock
Fed Amer Soc Exp Biol Fed Proc 27(2):781
Mar 1968 442.9 F31P
Chickens, Liver, Livestock diseases, Muscular dystrophy, Nucleic acids, Nucleosides, Pancreas, Phosphorylases, Thymidine, Xanthine dehydrogenase.

17486-68
STUDIES ON URINARY INCONTINENCE AND 'WET BELLY' IN RANCH MINK (MUSTELA VISON).
R J Aulerich
Diss Abstr Sect B 28(9):3545B
Mar 1968 Z5055.U49D53
Animal diseases, Calcium, Diet, Minks, Neomycin, Nitrofurantoin, Urine, Wet belly.

17487-68
REQUIREMENT OF YOUNG CHICK EMBRYOS FOR PHENYLALANINE AND TYROSINE. (ABSTRACT).
R E Austic
Fed Amer Soc Exp Biol Fed Proc 22(2):727
Mar 1968 442.9 F31P
Amino acids, Chicks, Deficiency diseases, Eggs, Neoplasms, Nervous system diseases, Phenylalanine, Tyrosine.

17488-68
NON-SPECIFIC PHOSPHATASES OF NORMAL AND NEOPLASTIC RABBITS ENDOMETRIUM. (ABSTRACT).
N Baba S C Vidyarthi E V Hamm
Fed Amer Soc Exp Biol Fed Proc 27(2):541
Mar 1968 442.9 F31P
Alkaline phosphatase, Endometrium, Neoplastic diseases, Phosphatases, Plasma membrane, Rabbits.

17489-68
SKIN ALLERGY OF THE CAT AND DOG.
K P Baker
Irish Vet J (N.S.)3(22):47-50 REF
Mar 1968 41.8 IR4
Allergies, Animal diseases, Cats, Diagnosis, Dogs, Skin, Therapeutics.

17490-68
HISTOLOGIC CHANGES AND INCLUSION BODIES IN CHICKENS INOCULATED WITH AN ORNITHOSIS AGENT.
R A Bankowski H Gerlach T Mikami
Avian Dis 12(2):217-226 REF
May 1968 41.8 AV5
Animal diseases, Animal histology, Chickens, Immunization, Inclusion bodies, Ornithosis.

17491-68
THE SPREAD OF SARCOSPORIDIOSIS IN CATTLE AND SWINE AND ITS IMPORTANCE FOR THE ESTIMATION OF MEAT VALUE. (CZ)
V Bartulic I Ljubic
Vet Glas 22(3):179-183 REF
1968 41.8 J93
Cattle, Economics, Livestock diseases, Meat, Sarcosporidiosis, Swine. English and Russian summarics

17492-68
VITAMIN B6 REQUIREMENT OF THE MINK.
A L Bowman H F Travis R G Warner D E Hoguc

J Nutr 95(4):554-562 REF
Aug 1968 389.8 J82
Animal nutrition, Animal physiology, Deficiency diseases, Diet, Metabolism, Minks, Vitamin b6.

17493-68
IMMUNOGENICITY OF CELL WALLS FROM VARIOUS MYCOBACTERIA AGAINST AIRBORNE TUBERCULOSIS IN MICE.
W Brehmer R L Anacker E Ribi
J Bacteriol 95(6):2000-2004 REF
Jun 1968 448.3 J82
Animal diseases, Cell wall, Immunology, Mice, Myeobacterium, Tuberculosis, Vaccines.

Abstract

17494-68
AN ABORTIVE INFECTION PRODUCED BY MEASLES VIRUS. (ABSTRACT).
T Burnstein W R Miller
Fed Amer Soc Exp Biol Fed Proc 27(2):445
Mar 1968 442.9 F31P
Abortion, Culture media, Fluorescence, Hamsters, Immunology, Measles virus, Vesicular stomatitis virus.

17495-68
DIETARY PRODUCTION OF CONGENITAL COPPER DEFICIENCY IN SWINE.
P A Cancilla R M Barlow N Weissman W F Coulson W H Carnes
J Nutr 93(4):438-444 REF
Dec 1967 389.8 J82
Animal breeding, Animal nutrition, Copper, Deficiency diseases, Diet, Swine.

17496-68
EFFECT OF SMALL CHANGES IN DIETARY THIAMINE OR ESSENTIAL FATTY ACID IN ALTERING THE RATE OF DRUG DETOXICATION IN THE LIVER OF THE RAT. (ABSTRACT).
W O Caster A E Wade F E Greene J S Meadows
Fed Amer Soc Exp Biol Fed Proc 27(2):549
Mar 1968 442.9 F31P
Aniline, Animal metabolism, Chemurgy, Diet, Fatty acids, Heptachlor, Liver, Rats, Thiamine, Toxicology.

17497-68
ELECTRON MICROSCOPIC OBSERVATIONS ON SCRAPIE IN THE MOUSE, WITH REFERENCE TO GLUCOSAMINIDASE ACTIVITY.
R L Chandler K Smith
Res Vet Sci 9(3):228-230 REF
May 1968 41.8 R312
Animal diseases, Cytology, Cytoplasm, Electron microscopy, Histochemistry, Metabolism, Mice, Scrapie.

17498-68
FELINE INFECTIOUS ANAEMIA: A FIRST CASE.
J D Collins H J Neumann
Irish Vet J (N.S.)22(5):88-89
May 1968 41.8 IR4
Cats, Equine infectious anemia, Parasitism.

17499-68
ANTIGENIC HETEROGENEITY OF FOOT-AND-MOUTH DISEASE VIRUS AS DEMONSTRATED WITH 7 DAYS POSTINFECTION GUINEA PIG SERUM BY OUCHTERLONY ANALYSES. (ABSTRACT).
K M Cowan
Fed Amer Soc Exp Biol Fed Proc 27(2):733
Mar 1968 442.9 F31P
Antigens, Biochemistry, Blood serum, Chymotrypsin, Foot-and-mouth disease virus, Guinea pigs, Ribonucleic acid, Trypsin.

17500-68
SEPHADEX G. 200 GEL-FILTRATION IN THE STUDY OF AGGLUTINATING, COMPLEMENT-FIXING, AND IN COMPLETE ANTIBODIES TO BRUCELLA ABORTUS IN CATTLE.
B Cunningham R A Q O'Meara W A Boggust
Irish Vet J (N.S.)22(6):102-107 REF
Jun 1968 41.8 IR4
Agglutination, Antibodies, Blood, Brucella abortus, Cattle, Filters, Gels, Research, Vaccines.

17501-68
THE INCIDENCE OF ANTIBODIES OF SOME ARBOVIRUSES IN MEN, DOMESTIC AND WILD ANIMALS LIVING IN THE NATURAL FOCUS OF THE TAHYNA VIRUS IN THE SOUTH OF MORAVIA. (CZ)
V Danielova Z Marhoul
Cesk Epidemiol Mikrobiol Imunol 17(3):155-161 REF
May 1968 448.8 C332
Deer, Humans, Livestock, Pheasants, Rabbits, Russian spring-summer encephalitis, Serological tests, Tahyna virus, Wildlife. English, ezech, and russian abstract

Abstract: Serum of wild and domestic animals, and of the population in the natural focus of Tahyna virus in Moravia showed that 62.0 percent of men and 55.17 percent of hares were positive. Neutralization test on tissue cultures was more sensitive than in mice. Antibodies against Calovo virus were found in a hind, and against tickborne encephalitis virus in the serum of one pheasant and four people.

17502-68
STUDIES TO DETERMINE NEUTRALIZING ANTIBODY IN SERA FROM SWINE RECOVERED FROM AFRICAN SWINE FEVER. (ABSTRACT).
C J De Boer A H Dardiri W R Hess
Fed Amer Soc Exp Biol Fed Proc 27(2):734
Mar 1968 442.9 F31P
African swine fever, African swine fever virus, Blood serum, Electron microscopy, Lactate dehydrogenase, Livestock diseases, Swine.

17503-68
GROUP-SPECIFIC STREPTOCOCCUS AGALACTIAE ANTIBODIES IN COLOSTRUM OF FIRST-CALF HEIFERS.
K Dodd N L Noreross
Amer J Vet Res 29(5):1095-1096
May 1968 41.8 AM3A
Animal diseases, Antibodies, Antigens, Cattle, Colostrum, Dairy bacteriology, Streptococcus agalactiae.

17504-68
PLASMA ZINC AND LEUKOCYTE CHANGES IN RATS DURING ZINC DEFICIENCY. (ABSTRACT).
I E Dreosti S Tao L S Hurley
Fed Amer Soc Exp Biol Fed Proc 27(2:484
Mar 1968 442.9 F31P
Blood plasma, Chemurgy, Leukocytes, Pregnancy, Rats, Zinc.

17505-68
AN OUTBREAK OF ATYPICAL INTERSTITIAL PNEUMONIA OF CATTLE.
W J Ehret J G Pienaar
S Afr Vet Med Ass J 38(4):407-413 REF
Dec 1967 41.8 SO8
Algae, Cattle, Drug therapy, Livestock diseases, Molds, Pneumonia, Reproduction, Taxonomy.

17506-68
COPPER DEFICIENCY IN THE GUINEA PIG.
G J Everson H C Tsai T Wang
J Nutr 93(4):533-540 REF
Dec 1967 389.8 J82
Animal abnormalities, Animal nutrition, Animal physiology, Copper, Deficiency diseases, Guinea pigs.

Abstract: Considerable myecination in utero, ataxia, brain abnormalities, aneurisms, agenesis of cerebellum, and defective nerve tissue development.

17507-68
THE KINETICS OF THE HEMOLYSIN OF NEWCASTLE DISEASE VIRUS.
E M Faddoul
Diss Abstr Sect B 28(9):3578B
Mar 1968 Z5055.U49D53
Biochemistry, Erythrocytes, Hemolysins, Kineties, Newcastle disease virus, Research.

17508-68
PESTICIDE-MANGANESE INTERELATIONSHIPS IN PREGNANCY. (ABSTRACT).
J P Feaster G K Davis C H Van Middelem
Fed Amer Soc Exp Biol Fed Proc 22(2):730
Mar 1968 442.9 F31P
Animal nutrition, Blood plasma, Carbaryl, Liver, Manganese, Parathion, Pregnancy, Rats.

17509-68
UNSUCCESSFUL ATTEMPTS TO TRANSMIT SCRAPIE BY NEMATODE PARASITES.
W M Fitzsimmons I H Pattison
Res Vet Sci 9(3):281-283
May 1968 41.8 R312
Animal diseases, Animal histology, Injections, Laboratory animals, Nematodes, Nippostrongylus brasiliensis, Parasitism, Scrapie.

17510-68
TUBERCULIN REACTION IN REGARD TO PATHOGENESIS OF TUBERCULOSIS.
E Gavez
Vet Glas 22(1):51-54
1968 41.8 J93
Animal diseases, Cattle, Epizootic diseases, Heterogenesis, Tuberculin test, Tuberculosis.

17511-68
THE EFFECT OF HYPOTHALAMIC LESIONS ON THYROID FUNCTION IN COCKERELS.
W H Gehrmann
Diss Abstr Sect B 28(9):3855B
Mar 1968 Z5055.U49D53
Animal physiology, Cockerels, Lesions, Radioactive tracers, Thyroid gland.

17512-68
ULTRASTRUCTURAL CHANGES IN DOG KIDNEY IN INFECTIOUS CANINE HEPATITIS. (ABSTRACT).
K Givan
Fed Amer Soc Exp Biol Fed Proc 27(2):663
Mar 1968 442.9 F31P
Animal diseases, Animal morphology, Dogs, Electron microscopy, Glomerulitis, Histology, Infectious canine hepatitis, Kidneys, Research, Viruses.

17513-68
EARLY RESPONSE OF CATTLE AND SWINE TO INACTIVATED FOOT-ANDMOUTH DISEASE VACCINE.
J H Graves P D McKercher H E Farris K M Cowan
Res Vet Sci 9(1):35-40
Jan 1968 41.8 R312
Cattle, Foot-and-mouth disease virus, Immunization, Swine, Vaccines, Virus diseases (animals).

17514-68
PSEUDORABIES IN PREGNANT SOWS AND THEIR PROGENY. (ABSTRACT).
D P Gustafson R M Claflin J R Saunders
Fed Amer Soc Exp Biol Fed Proc 27(2):445
Mar 1968 442.9 F31P
Abortion, Agricultural research, Antibodies, Baby pigs, Colostrum, Culture media, Livestock diseases, Pregnancy, Pseudorabies, Swine, Viruses.

17515-68
STUDIES ON THE ABSORPTION OF 75 SELENIUM IN CHICKS. (ABSTRACT).
C H Hill
Fed Amer Soc Exp Biol Fed Proc 27(2):417
Mar 1968 442.9 F31P
Animal nutrition, Biological transport, Chemurgy, Chicks, Duodenum, Intestinal absorption, Mercapto group, Radioactive tracers, Selenium.

17516-68
ZINC LEVELS IN MATERNAL-FETAL ORGANISM UNDER TERATOGENIC CONDITIONS OF ZINC DEFICIENCY. (ABSTRACT).
L S Hurley H Swenerton J Gowan
Fed Amer Soc Exp Biol Fed Proc 27(2):484

340988 0023

Mar 1968 442.9 F31P
Animal abnormalities, Animal nutrition, Bones, Chemurgy, Deficiency diseases, Diet, Fetal death, Liver, Rats, Zinc.

17517-68
DOGS AS A SOURCE OF TOXOPLASMOSIS. (RUS)
N A Iova I D Netrebko
Zhur Mikrobiol Epidemiol Immunobiol 12:105-108
Dec 1967 448.3 Z4
Dogs, Toxoplasmosis. English summary.

17518-68
RECOVERY OF CANINE DISTEMPER VIRUS FROM SUBCULTURED PRIMARY DOG KIDNEY CELL CULTURE.
L Kasza
Res Vet Sci 9(2):187-188
Mar 1968 41.8 R312
Antibodies, Canine distemper, Cytoplasm, Dogs, Kidneys, Research, Tissue culture, Virus diseases (animals).

17519-68
COMPARISON OF INFECTIONS WITH LEUCOCYTOZOON SIMONDI IN BLACK DUCKS (ANAS RUBRIPES), MALLARDS (ANAS PLATYRHYNCHOS) AND WHITE PEKINS (ANAS BOCHAS).
R A Khan A M Fallis
Can J Zool 46(4):773-780 REF
Jul 1968 470 C16D
Animal diseases, Ducks, Leucocytozoon simondi, Leukocytes, Mortality, Parasitism.

17520-68
FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. AMMONIATED COTTONSEED MEAL.
J K Kirk
Fed Regist 33(151):11077
03 Aug 1968 L1.451
Agricultural regulation, Ammonia, Animals, Cottonseed meal, Feed, Food additives, Therapeutics, Water.

17521-68
FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF FOODPRODUCING ANIMALS. AMPROLIUM, OXYTETRACYCLINE, ZOALENE.
J K Kirk
Fed Regist 33(172,PT.I):12368
04 Sep 1968 L1.451
Amprolium, Animals, Drug therapy, Feed, Food additives, Livestock diseases, Oxytetracycline, Therapeutics, Water, Zoalene.

17522-68
FOOD ADDITIVES PERMITTED IN THE FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD-PRODUCING ANIMALS. CARBARSONE (NOT U.S.P.).
J K Kirk
Fed Regist 33(138,PT.I):10207
17 Jul 1968 L1.451
Carbarsone, Drugs, Feed, Food additives, Livestock, Therapeutics, Water.

17523-68
A SIMPLE METHOD FOR THE SERUM NEUTRALIZATION WITH JAPANESE ENCEPHALITIS (JE) VIRUS UTILIZING PLAQUE INHIBITION BY AGAR-DIFFUSED ANTIBODY.
H Kiyota
Jap J Microbiol 12(2):179-185 REF
Jun 1968 448.8 J273
Antibodies, Immunology, Japanese b encephalitis virus, Serodiagnosis, Serological tests, Virology.

Abstract

17524-68
C.F. ANTIGEN FROM LEUKOCYTES INFECTED WITH THE VIRUS OF EQUINE INFECTIOUS ANEMIA. (ABSTRACT).
K Kobayashi J B Henson J R Gorham
Fed Amer Soc Exp Biol Fed Proc 27(2):733
Mar 1968 442.9 F31P
Animal diseases, Antigens, Culture media, Equine infectious anemia, Leukocytes, Viruses.

17525-68
ANEMIA AND MECHANISM OF RED CELL DESTRUCTION IN DUCKS WITH ACUTE LEUCOCYTOZOON DISEASE.
R M Kocan
Diss Abstr Sect B 28(10):3948B-3949B
Apr 1968 Z5055.U49D53
Agglutination, Anaplasma, Anemia, Babesia, Cells, Ducks, Erythrocytes, Hemolysis, Leucocytozoon simondi, Plasmodium, Serum.

17526-68
MAREK'S DISEASE. II. PROPAGATION OF THE CONNECTICUT-A ISOLATE IN CELL CULTURES.
S D Kottaridis R E Luginbuhl T N Fredrickson
Avian Dis 12(2):246-258 REF
May 1968 41.8 AV5
Animal histology, Avian lymphomatosis, Cells, Chickens, Culture media, Cytology, Immunization, Virus diseases (animals).

17527-68
EFFECTS OF HIGH DIETARY EDTA, ZINC OR COPPER ON MINERAL CONTENT OF TURKEY POULT TISSUE. (ABSTRACT).
F H Kratzer P Vohra G D Gottfredson
Fed Amer Soc Exp Biol Fed Proc 27(2):481
Mar 1968 442.9 F31P
Animal nutrition, Copper, Diet, Ethylenediaminetetraacetic acid, Minerals, Turkeys, Zinc.

17528-68
RESPONSE OF WEANLING RATS TO INFECTION, REBLOCKADE AND DIETARY PROTEIN. (ABSTRACT).
N Kula P M Newberne
Fed Amer Soc Exp Biol Fed Proc 22(2):725
Mar 1968 442.9 F31P
Animal nutrition, Casein, Deficiency diseases, Diet, Neoplasms, Protcins, Rats, Salmonella typhimurium, Weaning.

17529-68
STUDIES ON THE ACQUIRED RESISTANCE OF SHEEP TO DICTYOCAULUS FILARIA (RUDOLPHI, 1809) RAILLIET AND HENRY, 1907.
G S Kunwar P G Deo
Indian J Vet Sci Anim Husb 37(4):298-304 REF
Dec 1967 41.8 IN22
Animal diseases, Dictyocaulus filaria, Immunity, Larvae, Parasitic bronchitis, Sheep, Verminous bronchitis.

17530-68
EFFECT OF HISTIDINE OR SOYBEAN MEAL ADDITIONS ON ZN DEFICIENCY SYMPTOMS. (ABSTRACT).
J G Lease
Fed Amer Soc Exp Biol Fed Proc 27(2):483
Mar 1968 442.9 F31P
Animal abnormalities, Blood, Chicks, Histidine, Legs, Phytates, Soybean meal, Zinc.

17531-68
AVAILABILITY TO THE CHICK OF ZINC PHYTATE COMPLEXES ISOLATED FROM OIL SEED MEALS BY AN IN VITRO DIGESTION METHOD.
J G Lease
J Nutr 93(4):523-532
Dec 1967 389.8 J82
Chicks, Digestion, Food supply, Meal, Phytates, Salts, Soybean meal, Zinc.

Abstract: Binding agent termed a carrier . Three isolated soy proteins contained low or no carrier properties.

17532-68
THE EFFECTS OF HYPO- AND HYPERTHYROIDISM ON THE TESTES AND ANTERIOR PITUITARY GLANDS OF COCKERELS.
G C Lehman
Diss Abstr Sect B 28(9):3928B
Mar 1968 Z5055.U49D53
Chemurgy, Cockerels, Hyperthyroidism, Phosphorus isotopes, Pituitary gland, Testes.

17533-68
FREE AMINO ACIDS, AMMONIA AND UREA CONCENTRATIONS IN THE BLOOD PLASMA OF STARVED LAMBS.
J Leibholtz C F Cook
J Nutr 93(4):561-567 REF
Dec 1967 389.8 J82
Amino acids, Ammonia, Animal nutrition, Animal physiology, Blood plasma, Lambs, Lysine, Starvation, Urea.

Abstract: Concentration of lysine in blood plasma was significantly higher in starved lambs.

17534-68
DUCK PLAGUE ON THE AMERICAN CONTINENT.
L Leibovitz J Hwang
Avian Dis 12(2):361-378 REF MAP
May 1968 41.8 AV5
Animal histology, Ducks, Epidemiology, Plague, Spleen, Virus diseases (animals).

17535-68
PATHOGENESIS AND INCIDENCE OF SPONTANEOUS GLOMERULONEPHRITIS (S.G.) IN SHEEP AND OTHER RUMINANTS. (ABSTRACT).
R A Lerner
Fed Amer Soc Exp Biol Fed Proc 27(2):363
Mar 1968 442.9 F31P
Animal diseases, Glomerulonephritis, Mice, Pathology, Rabbits, Radioactive tracers, Sheep.

17536-68
A TECHNIQUE FOR THE DETERMINATION OF THE ACTION LEVEL OF INHIBITORS.
P Limasset
Ann Epiphyt 18:3-9
1967 464.9 F84AN
Injections, Methodology, Mosaic (tobacco), Plant injuries, Virus diseases (plants). English and German summary

17537-68
RESPIRATION OF BOVINE SPERMATOZOA IN THE PRESENCE OF ALPHAMETHYLBENZYL 3-(DIMETHOXYPHOSPHINYLOXY)-CIS-CROTONATE (CIODRIN) IN VARIOUS CONCENTRATE MIXTURES. (ABSTRACT).
J R Lodge
J Dairy Sci 51(6):965
Jun 1968 44.8 J822
Biochemistry, Cattle, Cells, Ciodrin, Insecticides, Respiration, Semen, Spermatozoa.

17538-68
CHARACTERIZATION OF RECEPTORS AND LYSOSOMES OF CELLS SUSCEPTIBLE TO INFECTIOUS BRONCHITIS VIRUS.
P D Lukert
Diss Abstr Sect B 28(9):3802B
Mar 1968 Z5055.U49D53
Acid phosphatase, Animal diseases, Eggs, Infectious bronchitis virus, Kidneys, Liver, Lungs, Lysosomes.

17539-68
THE PREVALENCE OF CANINE TOXOPLASMOSIS IN NIIGATA PREFECTURE, JAPAN WITH SPECIAL REFERENCE TO ISOLATION OF TOXOPLASMA FROM DIAPHRAGM MUSCLE SAMPLES. (JA)
T Maitani M Yokoyama
Jap J Parasitol 16(3):147-155 REF
Jun 1967 436.8 J27
Animal histology, Dogs, Immunodiagnosis, Toxoplasmosis. English summary

Abstract

17540-68
ISOLATION OF MIRCOBACTERIUM TUBERCULOSIS HUMAN TYPES FROM THE ORGANS OF HOME-PRODUCED POULTRY. (SL)

P Markovic S Zakula B Nikolic Z Ljesevic
Vet Glas 22(2):101-103
1968 41.8 J93
Animal diseases, Animal morphology, Bacteriology, Biology, Chickens, Human diseases, Liver, Poultry, Tuberculosis. Russian and English summaries

17541-68
ISOLATION OF BRUCELLA ABORTUS FROM GOATS AND SHEEP IN THE PUNJAB.
T N Mathur
Indian J Vet Sci Anim Husb 37(4):277-286
Dec 1967 41.8 IN22
Antigens, Brucella abortus, Brucella melitensis, Goats, Milk, Sheep, Virus diseases (animals).

17542-68
OBSERVATIONS ON BLOOD COPPER IN SHEEP. I. NORMAL COPPER STATUS AND VARIATIONS INDUCED BY DIFFERENT CONDITIONS.
P J McCosker
Res Vet Sci 9(1):91-101 REF
Jan 1968 41.8 R312
Blood, Cells, Copper, Research, Sheep.

17543-68
EFFICACY OF NAPHTHALOPHOS AND COUMAPHOS AGAINST NEMATODES OF GOATS.
L R McDougald R G White M F Hansen
Amer J Vet Res 29(5):1077-1079
May 1968 41.8 AM3A
Animal diseases, Coumaphos, Goats, Naphthalophos, Nematodes, Nematodirus, Ostertagiasis, Trichostrongylus.

17544-68
AN EPIZOOTIC OF ASPERGILLOSIS IN CANADA GEESE.
H C McDougle R W Vaught
J Wildlife Manage 32(2):415-417
Apr 1968 410 J827
Aspergillosis, Epizootic diseases, Geese, Mycosis, Pneumonia, Respiratory diseases.

Abstract: Geese had varying degrees of pulmonary aspergillosis; 3 distinct stages of mycotic pneumonia were recorded.

17545-68
LINOLEIC ACID REQUIREMENT OF THE HEN FOR REPRODUCTION.
H Menge
J Nutr 95(4):578-582 REF
Aug 1968 389.8 J82
Animal nutrition, Calorific value, Chickens, Diet, Linoleic acid, Reproduction.

17546-68
EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL, OR INTRAVENOUS INOCULATION: SEROLOGIC AND INTRADERMAL TESTS.
R S Merkal A B Larsen K E Kopecky J P Kluge W S Monlux R P Lehmann L Y Quinn
Amer J Vet Res 29(5):963-969 REF
May 1968 41.8 AM3A
Bacteria, Dermatology, Immunization, Injections, Johne's disease, Mouth, Serological tests, Sheep, Trachea.

Abstract: Hemagglutinating and complement-fixing antibodies disappeared while lambs were still severely infected, but precipitins continued to increase as the infection became more severe and decreased as lambs recovered.

17547-68
EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL, OR INTRAVENOUS INOCULATION: HISTOCHEMICAL LOCALIZATION OF DEHYDROGENASE ACTIVITIES.
R S Merkal W S Monlux J P Kluge A B Larsen K E Kopecky L Y Quinn R P Lehmann
Amer J Vet Res 29(5):971-982 REF
May 1968 41.8 AM3A
Dehydrogenases, Histochemistry, Immunization, Injections, Johne's disease, Mouth, Sheep, Trachea.

17548-68
EXPERIMENTAL PARATUBERCULOSIS IN SHEEP AFTER ORAL, INTRATRACHEAL, OR INTRAVENOUS INOCULATION: HISTOCHEMICAL LOCALIZATION OF HYDROLASE ACTIVITIES.
R S Merkal J P Kluge W S Monlux A B Larsen K E Kopecky L Y Quinn R P Lehmann
Amer J Vet Res 29(5):985-994
May 1968 41.8 AM3A
Histochemistry, Hydrolases, Immunization, Injections, Johne's disease, Mouth, Sheep, Tissues, Trachea.

17549-68
THE ROLES OF VITAMIN E, SELENIUM, AND METHIONINE IN DIETARY LIVER NECROSIS AND NUTRITIONAL MUSCULAR DYSTROPHY IN THE PIG.
R L Michel
Diss Abstr Sect B 28(9):3764B
Mar 1968 Z5055.U49D53
Animal nutrition, Deficiency diseases, Diet, Liver, Methionine, Muscular dystrophy, Necrosis, Selenium, Swine, Vitamin e.

17550-68
TOXIC SUBSTANCES IN ALFALFA HAY. (ABSTRACT).
G P Mohanty C W Carlson H H Voelker N A Jorgensen
J Dairy Sci 51(6):984
Jun 1968 44.8 J822
Alfalfa, Chickens, Chloroform, Distilled water, Hay, Toxicology.

17551-68
ISOLATION OF A PARAVACCINIA VIRUS FROM A COW IN JAPAN. (JA)
C Morita H Izawa M Soekawa
Jap J Vet Sci 29(4):171-175 REF
Aug 1967 41.8 J27
Culture media, Dairy cattle, Livestock diseases, Poxviruses, Pseudocowpox, Udders, Virus diseases (animals).

17552-68
PASSAGE OF ANTIBIOTICS THROUGH THE DIGESTIVE TRACT OF NORMAL AND SCOURING CALVES AND THEIR EFFECT UPON THE BACTERIAL FLORA.
P J Mylrea
Res Vet Sci 9(1):5-13
Jan 1968 41.8 R312
Antibiotics, Bacteria, Calves, Dihydrostreptomycin, Dysentery, Gastrointestinal system, Milk, Neomycin.

Abstract: Neither antibiotic eliminated Salmonella.

17553-68
PHYSICOCHEMICAL STUDIES OF NEWCASTLE DISEASE VIRUS. III. THE CONTENT OF VIRUS NUCLEIC ACID AND ITS SEDIMENTATION PATTERN.
H Nakajima J Obara
Arch Gesamte Virusforsch 20(3):287-295 REF
1967 448.3 AR23
Biophysics, Molecular weight, Newcastle disease virus, Nucleic acids, Physical chemistry, Virology.

Abstract

17554-68
SURVIVABILITY OF THE FOOT-AND-MOUTH DISEASE VIRUS OUTSIDE THE HOST. TRANSL. I6891.
I Nauruzbayev
23 P.
Barns, Cattle, Foot-and-mouth disease virus, Guinea pigs, Humidity, Injections, Measurement, Methodology, Research, Tables (data), Temperature. Translation from Trudy. 26:96-103, 1966. translated by C. C. Nikiforoff

17555-68
CALCIUM STATUS STUDIES ON ADULT SHEEP.
T E Nelson A D Tillman
J Nutr 93(4):475-479 REF
Dec 1967 389.8 J82
Animal nutrition, Animal physiology, Calcium, Deficiency diseases, Phosphorus, Sheep.

Abstract: Postulated that renal phosphorus clearance was greater in the Ca-deficient sheep.

17556-68
ALLEVIATION OF THE LEG ABNORMALITY IN ZINC-DEFICIENT CHICKS BY HISTAMINE AND BY VARIOUS ANTI-ARTHRITIC AGENTS.
F H Nielsen M L Sunoe W G Hoekstra
J Nutr 94(4):527-533 REF
Apr 1968 389.8 J82
Animal abnormalities, Animal nutrition, Arthritis, Chicks, Deficiency diseases, Histamine, Zinc.

Abstract

17557-68
RELATIONSHIP OF HISTIDINE. ITS METABOLITES AND OTHER FACTORS TO THE ARTHRITIC SYNDROME IN ZINC-DEFICIENT CHICKS.
F H Nielson
Diss Abstr Sect B 28(11):4417B
May 1968 Z5055.U49D53
Amino acids, Animal nutrition, Arthritis, Chicks, Diet, Histidine, Legs, Metabolites, Temperature, Zinc.

17558-68
PNEUMONIA DUE TO MYCOPLASMA IN GNOTOBIOTIC MICE. III LESIONS IN THE LUNGS OF GNOTOBIOTIC MICE AFTER MULTIPLE INTRANASAL INOCULATIONS OF BROTH CULTURES OF MYCOPLASMA PNEUMONIAE.
A B Organick I I Lutsky
J Bacteriol 95(6):2310-2316 REF
Jun 1968 448.3 J82
Animal diseases, Germ-free life, Mice, Mycoplasma, Pneumonia.

Abstract

17559-68
CELLULAR IMMUNITY OF MICE INFECTED WITH LISTERIA MONOCYTOGENES IN DIFFUSION CHAMBERS.
J W Osebold R A DiCapua
J Bacteriol 95(6):2158-2164 REF
Jun 1968 448.3 J82
Animal diseases, Antibodies, Immunity, Listeria monocytogenes, Mice.

Abstract

17560-68
EFFECTS OF FREEZING ON AFRICAN HORSE-SICKNESS VIRUS. (ABSTRACT).
Y Ozawa S Bahrami
Fed Amer Soc Exp Biol Fed Proc 27(2):562
Mar 1968 442.9 F31P
African horse sickness virus, Culture media, Freezing, Research, Salts, Sugars, Temperature.

17561-68
INTESTINAL ELECTROLYTE DISTRIBUTION AND CA45 AND SR89 INSORPTION IN CALVES.
S C Perry
Diss Abstr Sect B 28(9):3858B
Mar 1968 Z5055.U49D53
Animal metabolism, Calcium isotopes, Calves, Chemurgy, Intestines, Strontium isotopes.

17562-68
SUSCEPTIBILITY OF CHICKS WITH GENETIC MUSCULAR DYSTROPHY TO GOUT INDUCED BY HIGH PROTEIN DIETS. (ABSTRACT).
D W Peterson W H Hamilton R Matson
Fed Amer Soc Exp Biol Fed Proc 27(2):416
Mar 1968 442.9 F31P

340988 0025

Animal genetics, Animal metabolism, Chicks, Diet, Gout, Mortality, Muscular dystrophy, Proteins.

17563-68
IN VITRO POTENCY TESTS FOR ANTI-HOG CHOLERA ANTIBODIES: A TEST FOR ANTI-HOG CHOLERA SERUMS AND A TEST FOR HERD EXPOSURE.
C E Phillips
Amer J Vet Res 29(5):1097-1102
May 1968 41.8 AM3A
Antibodies, Culture media, Hog cholera, Serological tests, Serum, Swine, Virus diseases (animals).

Abstract: Large numbers of coverslip monolayer cell cultures were processed rapidly with apparatus of special design.

17564-68
SUSCEPTIBILITY OF CULTURED MAMMALIAN CELLS TO INFECTION WITH VIRULENT AND MODIFIED HOG CHOLERA VIRUSES.
E C Pirtle A J Kniazeff
Amer J Vet Res 29(5):1033-1040 REF
May 1968 41.8 AM3A
Antibodies, Antigens, Cells, Culture media, Hog cholera, Immunity, Mammals, Virus diseases (animals).

17565-68
METABOLIC MECHANISMS AFFECTING AFLATOXIN B, TOXICITY IN TWO SPECIES. (ABSTRACT).
R Portman T C Campbell K Plowman
Fed Amer Soc Exp Biol Fed Proc 27(2):839
Mar 1968 442.9 F31P
Aflatoxin, Animal metabolism, Glucose, Liver, Mice, Rats, Toxicology.

17566-68
INFECTIOUS INHERITANCE OF PATHOGENICITY IN ASPERGILLUS. (ABSTRACT).
D M Purnell G M Martin G L Dorn
Fed Amer Soc Exp Biol Fed Proc 27(2):477
Mar 1968 442.9 F31P
Aspergillus nidulans, Fetal death, Mice, Phytopathology, Plant genetics.

17567-68
INTERACTIONS OF SERA AND LEUCOCYTES IN VITRO ON CELLS TRANSFORMED BY ROUS SARCOMA VIRUS. (ABSTRACT).
H Rabin
Fed Amer Soc Exp Biol Fed Proc 27(2):429
Mar 1968 442.9 F31P
Antibodies, Cells, Chickens, Culture media, Immunization, Rous sarcoma virus, Serum.

17568-68
CONGENITAL GOITRE IN MERINO SHEEP DUE TO AN INHERITED DEFECT IN THE BIOSYNTHESIS OF THYROID HORMONE.
R Rac G N Hill R W Pain C J Mulhearn
Res Vet Sci 9(3):209-223 REF
May 1968 41.8 R312
Animal diseases, Animal genetics, Blood tests, Goiter, Hereditary diseases, Hormones, Lambs, Mortality, Research.

17569-68
THEILERIASIS IN TEXAS WHITE-TAILED DEER.
R M Robinson K L Kuttler J W Thomas R G Marburger
J Wildlife Manage 31(3):455-459 MAP
Jul 1967 410 J827
Deer, Immunization, Insect vectors, Theileriasis, Wildlife diseases.

Abstract: Five splenectomized and five nonsplenectomized fawns were inoculated with blood from a parasitized deer; one fawn died. Surviving splenectomized deer did not regain preinoculation erythrocyte values. No signs of infection were seen in the nonsplenectomized deer.

17570-68
IMMUNITY TO EIMERIA BRUNETTI AND EIMERIA MAXIMA INFECTIONS IN THE FOWL.
M E Rose
Parasitology 57(2):363-370 REF
May 1967 448.8 P21
Animal diseases, Coccidiosis, Experiment stations, Injections, Intestines, Poultry.

17571-68
PENICILLIN CONCENTRATION IN CANINE BLOOD AND URINE AFTER INTRAMUSCULAR INJECTION.
I H Siddique W Battle G T Blackledge
Amer Vet Med Ass J 152(6):631-633
15 Mar 1968 41.8 AM3
Animal diseases, Blood, Dogs, Dosage, Drugs, Injections, Muscles, Penicillin, Procaine, Sodium, Therapeutics, Urine.

17572-68
NITROFURANS AND ANTIBIOTIC THERAPY OF ARTIFICIALLY INDUCED SWINE SALMONELLOSIS.
V K Singh
Amer Vet Med Ass J 153(1):65-68 REF
01 Jul 1968 41.8 AM3
Antibiotics, Autopsies, Nitrofurans, Salmonellosis, Swine, Therapeutics.

Abstract

17573-68
PATHOGENESIS OF STAPHYLOCOCCAL SYNOVITIS IN TURKEYS: CULTURAL RETRIEVAL IN EXPERIMENTAL INFECTION.
R A Smart M L Miner R V Davis
Avian Dis 12(1):37-46 REF
Feb 1968 41.8 AV5
Infectious synovitis, Septicemia, Turkeys.

17574-68
THE EFFECT OF DIETARY MG AND F ON BONE CALCIFICATION IN CHICKS. (ABSTRACT).
F Spierto J C Rogler H E Parker
Fed Amer Soc Exp Biol Fed Proc 27(2):312
Mar 1968 442.9 F31P
Animal nutrition, Bones, Chicks, Culture media, Diet, Iron, Magnesium.

17575-68
BEDSONIA ABORTION OF SHEEP. I. AETIOLOGICAL STUDIES.
M J Studdert D G McKercher
Res Vet Sci 9(1):48-56 REF
Jan 1968 41.8 R312
Abortion, Bedsonia virus, Etiology, Injections, Research, Sheep, Virus diseases (animals).

17576-68
EFFECT OF ROUS SARCOMA VIRUS INFECTION ON THE INHIBITION OF NUCLEOLAR RNA- AND DNA SYNTHESIS BY ACTINOMYCIN D IN CHICKEN FIBROBLASTS: RADIOAUTOGRAPHIC LOCALIZATION OF VIRAL RNA SYNTHESIS IN NUCLEOLI. (ABSTRACT).
R G Suskind T Pry G Rabotti
Fed Amer Soc Exp Biol Fed Proc 22(2):715
Mar 1968 442.9 F31P
Actinomycin d, Autoradiography, Biosynthesis, Chickens, Deoxyribonucleic acid, Ribonucleic acid, Rous sarcoma virus, Viruses.

17577-68
SPERM OUTPUT OF BULLS AND PRODUCTION BY COWS FED SUPPLEMENTAL VITAMINS. (ABSTRACT).
J W Thomas D Hillman H D Hafs
J Dairy Sci 51(6):979
Jun 1968 44.8 J822
Alfalfa, Animal nutrition, Bulls, Cattle, Corn, Feeding, Hay, Injections, Lactation, Semen, Spermatozoa, Vitamin a, Vitamin d, Vitamin e.

17578-68
SELENIUM DEFICIENCY IN CHICKS AND ITS EFFECT ON THE REQUIREMENT FOR VITAMIN E. (ABSTRACT).
J N Thompson M L Scott
Fed Amer Soc Exp Biol Fed Proc 27(2):417
Mar 1968 442.9 F31P
Amino acids, Chemurgy, Chicks, Deficiency diseases, Diet, Exudative diathesis, Micronutrients, Mortality, Selenium, Vitamin e.

17579-68
TRANSMISSIBLE ENTERITIS OF TURKEYS-DISEASE REPRODUCTION.
R B Truscott
Avian Dis 12(2):239-245
May 1968 41.8 AV5
Animal diseases, Culture media, Enteritis, Immunization, Reproduction, Transmissible gastroenteritis, Turkeys.

17580-68
VASCULAR DISEASE IN ORGANOMERCURIAL POISONING IN SWINE. (ABSTRACT).
L Tryphonas O Nielsen
Fed Amer Soc Exp Biol Fed Proc 27(2):612
Mar 1968 442.9 F31P
Animal diseases, Circulatory system, Lesions, Mercury, Organic compounds, Swine, Toxicology.

17581-68
YELLOW PIGMENTS EXCRETED BY VITAMIN A-DEPLETED SHEEP.
R E Tucker G E Mitchell C O Little
J Nutr 93(4):518-522 REF
Dec 1967 389.8 J82
Animal nutrition, Cecum, Colon, Deficiency diseases, Feces, Gastrointestinal system, Sheep, Vitamin a.

17582-68
THE ABSORPTION OF ZINC AND OLEIC ACID FROM DIGESTIVE TRACTS PARASITIZED IN THE ILEUM, CECA, AND COLON. (ABSTRACT).
D E Turk J F Stephens
Fed Amer Soc Exp Biol Fed Proc 27(2):421
Mar 1968 442.9 F31P
Coccidiosis, Eimeria acervulina, Eimeria brunetti, Eimeria necatrix, Eimeria tenella, Intestinal absorption, Oleic acid, Parasitism, Zinc.

17583-68
ENZOOTIC PNEUMONIA OF SHEEP IN THE MAFEKING DISTRICT.
R R Van Der Veen I F Zumpt
S Afr Vet Med Ass J 38(4):415-419
Dec 1967 41.8 SO8
Bacteria, Drug therapy, Enzootic pneumonia, Immunization, Livestock diseases, Pasteurella haemolytica, Pasteurella multocida, Pneumonia, Sheep, Vaccines.

17584-68
MEASUREMENT OF THE ANTITHYROTOXIC FACTOR CONTENT OF VARIOUS ROUGHAGES AND COW FECES. (ABSTRACT).
R W Wallenius J W Hibbs H R Conrad
J Dairy Sci 51(6):984
Jun 1968 44.8 J822
Animal nutrition, Animal physiology, Biological assay, Cattle, Feces, Feed, Measurement, Roughage, Thyroid gland, Toxicology.

17585-68
NIACIN REQUIREMENT OF GROWING MINK.
R G Warner H F Travis C F Bassett B McCarthy R P Abernathy
J Nutr 95(4):563-568
Aug 1968 389.8 J82
Animal nutrition, Animal physiology, Deficiency diseases, Diet, Metabolism, Minks, Nicotinic acid.

17586-68
VARIABILITY IN HEMATOLOGICAL RESPONSE OF CHICKS FED IRONCOPPER DEFICIENT SKIM MILK DIET. (ABSTRACT).
K W Washburn

Fed Amer Soc Exp Biol Fed Proc 27(2):481
Mar 1968 442.9 F31P
Animal nutrition, Chemurgy, Chicks, Copper, Deficiency diseases, Diet, Hematology, Iron, Skim milk.

17587-68
METABOLISM OF 75SE-SELENITE AND 75SE-SELENOMETHIONINE BY RUMEN MICROORGANISMS. (ABSTRACT).
P D Whanger P H Weswig O H Muth
Fed Amer Soc Exp Biol Fed Proc 27(2):418
Mar 1968 442.9 F31P
Animal nutrition, Chemurgy, Chromatography, Microorganisms, Pronase, Protcins, Radioactive tracers, Rumen, Sclenitc, Sclenium, Selcnomcthionine.

17588-68
INVESTIGATIONS ON TERATOGENIC EFFECTS OF DIETARY NITRATE IN THE RAT AND EXCESS VITAMIN A IN THE DOG.
D O Wicrsig
Diss Abstr Sect B 28(9):3815B
Mar 1968 Z5055.U49D53
Animal abnormalities, Diet, Dogs, Feed additives, Potassium nitrite, Pregnancy, Rats, Vitamin a.

17589-68
SUSCEPTIBILITY OF TURKEYS TO INFECTIOUS LARYNGOTRACHEITIS.
R W Winterfield I G So
Avian Dis 12(1):191-202 REF
Feb 1968 41.8 AV5
Chick embryos, Infectious laryngotracheitis virus, Turkeys.

17590-68
BRUCELLOSIS. DESIGNATION OF MODIFIED CERTIFIED BRUCELLOSIS, AREAS, PUBLIC STOCKYARDS, SPECIFICALLY APPROVED STOCKYARDS AND SLAUGHTERING ESTABLISHMENTS.
G H Wise
Fed Regist 33(138,PT.1):10201-10202
17 Jul 1968 L1.451
Agricultural regulation, Brucellosis, Livestock diseases, Slaughterhouses, Stockyards.

17591-68
STUDIES ON TRANSMISSIBLE GASTROENTERITIS VIRUS OF PIGS.
K H M Witte
Diss Abstr Sect B 28(11):4368B-4369B
May 1968 Z5055.U49D53
Culture media, Cytology, Kidneys, Research, Salivary glands, Serological tests, Swine, Thyroid gland, Transmissible gastroenteritis.

17592-68
RENAL EFFECTS OF CARBON TETRACHLORIDE IN THE CAT.
L C K Wong
Diss Abstr Sect B 28(9):3817B
Mar 1968 Z5055.U49D53
Animal metabolism, Blood plasma, Carbon tetrachloride, Cats, Fats, Glycerides, Kidneys, Lipids.

17593-68
EFFECT OF ENDOGENOUS INTERFERON AND ACTINOMYCIN D ON GROWTH OF JAPANESE ENCEPHALITIS VIRUS IN CHICK EMBRYO CELLS.
S Yamazaki
Jap J Microbiol 12(2):171-178 REF
Jun 1968 448.8 J273
Actinomycin d, Antibiotics, Chickens, Interferon, Japanese b encephalitis virus, Tissue culture, Virucides.

Abstract

17594-68
STUDIES ON PATHOGENIC LEPTOSPIRAE. VI. EFFECT OF TWEEN 80 ON THE GROWTH OF LEPTOSPIRA CANICOLA AND LEPTOSPIRA ICTEROHAEMORRHAGIAE.
Y Yanagihara I Mifuchi
Jap J Microbiol 12(2):145-149 REF
Jun 1968 448.8 J273
Antimetabolites, Leptospira canicola, Leptospira icterohaemorrhagiae, Metabolism, Physiology.

Abstract

17595-68
COMPARATIVE DRUG METABOLISM IN FIVE MAMMALIAN SPECIES. (ABSTRACT).
B Zook R M Cook
J Dairy Sci 51(6):981
Jun 1968 44.8 J822
Animal physiology, Cattle, Drugs, Enzymes, Goats, Liver, Mammals, Metabolism, Pesticides, Rats, Sheep, Swine.

ARTHROPODS

17596-68
TICK INFESTATION OF LIVESTOCK IN NATAL. 1. THE PREDILECTION SITES AND SEASONAL VARIATIONS OF CATTLE TICKS.
M K Baker F B W Ducasse
S Afr Vet Med Ass J 38(4):447-453
Dec 1967 41.8 SO8
Cattle, Chemical control (insects), Climate, Insect behavior, Insect dissemination, Insect ecology, Insect vectors, Ixodides.

17597-68
INSECT-BORNE ANIMAL DISEASES ARE TARGETS FOR NEW ZEALAND VIGILANCE.
G A Helson
New Zeal J Agr 117(2):58-59
Aug 1968 23 N48J
Aircraft disinfestation, Animal quarantine, Insect control, Insect vectors, Sanitation. Quarantine and aircraft disinfestation procedures are primary precautions in New Zealand's vigilance against introduction of insects bearing animal diseases.

PARASITES

17598-68
EXPLORATIONS FOR VARIATIONS IN THE PATHOGENICITY OF HAEMONCHUS CONTORTUS ISOLATES.
G W Benz
Diss Abstr Sect B 28(11):4368
May 1968 Z5055.U49D53
Anemia, Animal diseases, Haemonchus contortus, Hematologic diseases, Hemoglobin, Population, Research, Sheep.

17599-68
STUDIES ON PATHOGENICITY AND FATTY ACID COMPOSITION OF RAILLIETINA CESTICILLUS (CESTODA).
H Botero
Diss Abstr Sect B 28(10):3948B
Apr 1968 Z5055.U49D53
Animal physiology, Cestoda, Chicks, Chromatography, Diet, Fatty acids, Feeding, Linolcic acid, Parasitism, Raillietina cesticillus, Tribolium.

17600-68
BENZIMIDAZOLE ANTHELMINTIC COMPOSITIONS AND METHOD OF USE. PATENT 3,326,753.
H D Brown
Us Patent Office Offic Gaz 839(3):1112
20 Jun 1967 156.65 OF2
Anthelmintics, Benzimidazole, Helminthiasis, Patents.

17601-68
CRUZIA BRASILIENSIS SP. N. (NEMATODA-CRUZIIDAE) PARASITE OF SUS DOMESTICUS. (SP)
H M A Costa
Minas Gerais Univ Escol Vet Arq 17:61-69 REF
1965 41.9 M662
Cruzia brasiliensis, Nematodes, Parasitism, Swine, Taxonomy. English summary

Abstract

17602-68
EXPERIMENTAL TRICHOSTRONGYLUS COLUBRIFORMIS INFECTION IN ADULT GOATS.
W M Fitzsimmons E Harness S A Sellwood
Res Vet Sci 9(3):237-247 REF
May 1968 41.8 R312
Animal abnormalities, Animal histology, Dosage, Goats, Helminthiasis, Hematology, Immunity, Laboratory animals, Larvae, Research, Trichostrongylus colubriformis.

17603-68
PARASITIC HYPOALBUMINAEMIA: STUDIES ON TYPE II OSTERTAGIASIS OF CATTLE.
G J Halliday W Mulligan R G Dalton
Res Vet Sci 9(3):224-227 REF
May 1968 41.8 R312
Albumins, Cattle, Chemical control (nematodes), Electrophoresis, Gastrointestinal system, Iodine isotopes, Measurement, Metabolism, Nematodes, Ostertagiasis, Parasitism, Proteins, Research, Serum.

17604-68
THE ROUTINE DIFFERENTIATION OF THE OVA AND LARVAE OF TWO PARASITES OF SWINE, HYOSTRONGYLUS RUBIDUS (HASSALL ET STILES, 1892) AND OESOPHAGOSTOMUM DENTATUM (RUD., 1803).
M R Honer
Z Parasitenk 29(1):40-45
1967 442.8 Z33F
Hyostrongylus rubidus, Oesophagostomum dentatum, Parasites, Swine.

Abstract

17605-68
OBSERVATIONS ON THE EARLY MIGRATION OF THE LARVAE OF ASCARIS SUUM GOEZE, 1782 IN WHITE MICE.
D C Jenkins
Parasitology 58(2):431-440 REF
May 1968 448.8 P21
Anatomy, Ascaris lumbricoides suum, Insect migration, Larvae, Mice, Parasitism, Research.

17606-68
STUDY OF THE EFFICACY OF HALOXON AGAINST TRICHINELLA SPIRALIS. (SP)
A Martinez Fernandez M Cordero Del Campillo B Aller Gancedo
Oviedo Univ Fac Vet Leon An 12(12):251-265 REF
1966 41.9 OV4
Anthelmintics, Haloxon, Hamsters, Rats, Trichinella spiralis. Spanish, French, English, and German summaries.

Abstract

17607-68
HELMINTHIC INFESTATIONS OF PIGLETS WITH REFERENCE TO LESIONS ENCOUNTERED.
G S Mishra B P Pande
Indian J Vet Sci Anim Husb 37(3):143-149 REF
Sep 1967 41.8 IN22
Ascaris lumbricoides suum, Baby pigs, Helminthiasis, Livestock diseases, Nematodes, Parasitism.

Abstract: A. lumbricoides suum is greatest significance because of the extensive injury in causes by mibration. In heavy infestations it greatly affects the hepatic and pulmonary tissues.

17608-68
EXPERIMENTAL STUDIES ON TOXASCARIS LEONINA. IV. DEVELOPMENT OF EGGS OF THREE ASCARIDS, T. LEONINA, TOXOCARA CANIS AND TOXOCARA CATI, IN DOGS AND CATS.
S Okoshi M Usui
Jap J Vet Sci 30(1):29-38 REF
Feb 1968 41.8 J27
Cats, Dogs, Feces, Physiology, Research, Temperature, Toxascaris leonina, Toxocara canis, Toxocara cati. Japanese summary

340988 0027

17609-68
EXPERIMENTAL STUDIES ON ANCYLOSTOMIASIS IN CATS. VI. VISCERAL MIGRATION OF LARVAE OF ANCYLOSTOMA TUBAFORME AND A. CANINUM IN DOGS.
S Okoshi Y Murata
Jap J Vet Sci 30(1):43-51 REF
Feb 1968 41.8 J27
Ancylostoma caninum, Ancylostoma tubaeforme, Ancylostomiasis, Biological transport, Cats, Dogs, Larvae, Parasitism, Viscera. English summary

17610-68
INTESTINAL MALABSORPTION OF D-GLUCOSE IN MICE INFECTED WITH TRICHINELLA SPIRALIS.
L J Olson J A Richardson
J Parasitol 54(3):445-451 REF
Jun 1968 448.8 J824
Animal diseases, D-glucose, Intestinal absorption, Larvae, Mice, Parasitism, Trichinella spiralis, Trichinosis.

17611-68
THREE NEW COCCIDIA PARASITIC IN CUBAN BIRDS. (PROTOZOA: SPOROZOA).
L Pellerdy
Acta Zool (budapest) 13(1-2):227-230
1967 410 AC85
Birds, Coccidiosis, Sporozoa, Taxonomy. Russian summary

17612-68
THE EFFECT OF SPLENECTOMY UPON INFECTION WITH EIMERIA TENELLA.
M E Rose
Parasitology 58(2):481-487 REF
May 1968 448.8 P21
Bursectomy, Chickens, Eimeria tenella, Insect control, Research, Spleen extract.

17613-68
FASCIOLIASIS IN CATTLE: A STUDY OF THE DISEASE IN THE FIELD.
J G Ross T C Geary J C McM Welsh
Irish Vet J (N.S.)22(5):82-87 REF
May 1968 41.8 IR4
Cattle, Fasciola hepatica, Fascioliasis, Liver, Livestock diseases, Parasitism.

17614-68
BIOCHEMICAL OBSERVATIONS OF ASCARIS SUUM LUNG-STAGE LARVAE.
H J Saz O L Cure E Bueding
J Parasitol 54(3):457-461 REF
Jun 1968 448.8 J824
Ascaris lumbricoides suum, Biochemistry, Guinea pigs, Larvae, Lungs, Nematodes, Parasitism.

17615-68
HETEROLOGOUS IMMUNITY IN AVIAN HOSTS INFECTED WITH PLASMODIUM RELICTUM AND PLASMODIUM LOPHURAE (SPOROZOA: HAEMOSPORINA).
A A Shahidi
Diss Abstr Sect B 28(10):4357B
Apr 1968 Z5055.U49D53
Antigens, Chickens, Electrophoresis, Immunity, Injections, Parasitism, Plasmodium lophurae, Plasmodium relictum.

17616-68
CONTRIBUTION TO THE KNOWLEDGE OF PARASITIC FAUNA IN FOWLS WITHIN SERBIA. V. ECTOPARASITES OF FOWLS IN THE VINICITY OF LAZAREVAC. (CZ)
R Slijepcevic-Jovanovic
Vet Glas 22(3):199-201
1968 41.8 J93
Chickens, Ducks, Geese, Parasitism, Poultry, Research, Turkeys. English and Russian summaries

17617-68
HELMINTHS, ARTHROPODS AND PROTOZOA OF DOMESTICATED ANIMALS, (SIXTH EDITION OF MONNIG'S VETERINARY HELMINTHOLOGY AND ENTOMOLOGY). SF810.0M6.
E J L Soulsby
824 P. BALTIMORE WILLIAMS AND WILKINS COMPANY
1968
Arthropoda, Helminthiasis, Livestock, Protozoa.

17618-68
TRANSMAMMARY PASSAGE OF ANCYLOSTOMA CANINUM LARVAE IN DOGS.
W M Stone M Giradeau
J Parasitol 54(3):426-429 REF
Jun 1968 448.8 J824
Ancylostoma caninum, Animal diseases, Dogs, Larvae, Mammary glands, Toxocara canis, Uterus.

17619-68
ESCHERICHIA COLI IN ENTERIC DISEASE OF SWINE: OBSERVATIONS ON HERD RESISTANCE.
E J Sweeney
Irish Vet J (N.S.)3(22):42-46 REF
Mar 1968 41.8 IR4
Enteritis, Escherichia coli, Genetics, Immunity, Livestock diseases, Swine.

17620-68
THE FEEDING PROCESSES OF THE CATTLE TICK BOOPHILUS MICROPLUS (CANESTRINI). II. THE SEQUENCE OF HOST-TISSUE CHANGES.
R J Tatchell D E Moorhouse
Parasitology 58(2):441-459 REF
May 1968 448.8 P21
Blood, Boophilus microplus, Cattle, Erythrocytes, Feeding, Histology, Secretions, Tissues.

17621-68
CALCIUM AND MAGNESIUM ABSORPTION IN THE YOUNG CALF FOLLOWING INDUCED PARASITISM, OSTERTAGIA SPP. (ABSTRACT).
L B Waymack S L Hansard
Fed Amer Soc Exp Biol Fed Proc 27(2):421
Mar 1968 442.9 F31P
Calcium, Chemurgy, Helminthiasis, Intestinal absorption, Larvae, Magnesium, Ostertagiasis.

COMMODITY PROTECTION

STORAGE DISEASES

17622-68
THE RAMIFICATIONS OF SALMONELLOSIS.
E E Dunton O C Raymond
Can J Public Health 59(6):246-247
Jun 1968 449.8 P964
Bacteria, Epidemiology, Food poisoning, Health, Human diseases, Packing, Salmonella typhimurium, Salmonellosis, Sanitation, Surveys, Typhoid.

ARTHROPODS

17623-68
INSECT PESTS IN FOOD STORES.
Great Brit Min Agr Fish Food Adv Leafl 483:8P.
Mar 1968 10 G79LA
Food, Insect pests, Insecticides, Mites, Stegobium paniceum, Storage.

17624-68
TREATMENT OF SEEDS OF THE COMMON PINE TREE WITH FUNGICIDES. TRANSL. I6706.
V I Mosin
9 P.
1966
Chemicals, Fungicides, Fungus diseases (plants), Laboratories, Pinus, Seeds, Storage, Trees.

17625-68
ANTHRENUS SARNICUS MROCZKOWSKI (COLEOPTERA, DERMESTIDAE) IN BRITAIN.
G E Woodroffe
J Stored Prod Res 3(3):263-265
Oct 1967 421 J829
Anthrenus sarnicus, Dermestidae, Great Britain, Household insects.

RODENTS AND OTHER PESTS

17626-68
CARDIAC LESIONS IN THE OFFSPRING OF RATS FED COPPER DEFICIENT DIET WITH LOW-LEVEL MULTIPESTICIDE SUPPLEMENTATION. (ABSTRACT).
W A Kelly W W Carlton
Fed Amer Soc Exp Biol Fed Proc 27(2):481
Mar 1968 442.9 F31P
Carbaryl, Casein, Copper, Corn, Fats, Fetal death, Heart, Neoplasms, Parathion, Rats, Sucrose.

17627-68
ACQUIRED IMMUNITY TO FASCIOLA HEPATICA IN THE LABORATORY WHITE MOUSE.
B Z Lang
Amer J Trop Med Hyg 17(4):561-567
Jul 1968 448.8 AM326
Acanthocephala, Antigens, Histology, Immunity, Laboratories, Leukocytes, Mice, Trichinella spiralis.

MICROBIAL CONTAMINATION

17628-68
THE BIOLOGY OF FUNGI BACTERIA VIRUSES. QR41.0S7.
G Stevenson
202 P. REF LONDON, EDWARD ARNOLD LIMITED
1967
Air, Bacteriophages, Biology, Cells, Ecology, Fungi, Habitats, Measurement, Metabolism, Microbiology, Morphology, Physiology, Soils, Tables (data), Water.

ENVIRONMENTAL CONTAMINATION

17629-68
EFFECT OF POLLUTION OF AIR WITH OZONE ON FLAVOR OF SPRAYDRIED MILKS. (ABSTRACT).
F E Kurtz A Tamsma R L Selman M J Pallansch
J Dairy Sci 51(6):935
Jun 1968 44.8 J822
Air pollution, Food flavor, Milk, Ozone, Spraying.

17630-68
THE ACCUMULATION OF 36CL RING-LABELED DDT IN A FRESHWATER MARSH.
R L Meeks
J Wildlife Manage 32(2):376-397 REF
Apr 1968 410 J827
Aquatic animals, Aquatic plants, Chlorine isotopes, DDt, Insecticide residues, Marshes, Radioactive tracers.

Abstract: Plants and most invertebrates accumulated their highest residues during the first week; vertebrates required longer periods.

RESIDUES

17631-68
THE INORGANIC BROMIDE CONTENT OF FOODSTUFFS DUE TO SOIL TREATMENT WITH FUMIGANTS.
H Beckman D G Crosby P T Allen C Mourer
J Food Sci 32(1):138-140
Jan 1967 389.8 F7322

Bromides, Dibromo-3-chloropropane, 1,2-, Ethylene dibromide, Food contamination, Fumigation, Pesticide residues, Soil contamination, Trimethylene chlorobromide.

Abstract

17632-68
COMPARATIVE METABOLISM OF MALATHION-C IN PLANTS AND ANIMALS.
J B Bourke E J Broderick L R Hackler P C Lippold
J Agr Food Chem 16(4):585-589 REF
Jul 1968 381 J8223
Animals, Beans, Chromatography, Excreta, Extracts, Malathion, Pesticides, Plant metabolism, Radioactivity, Rats, Tissues.

17633-68
INFLUENCE OF VARIOUS PERSISTENT CHLORINATED INSECTICIDES ON THE MACRO AND MICRO ELEMENT CONSTITUENTS OF ZEA MAYS AND PHASEOLUS VULGARIS GROWING IN SOIL CONTAINING VARIOUS AMOUNTS OF THESE MATERIALS.
H Cole D MacKenzie C B Smith E L Bergman
Bull Environ Contamination Toxicol 3(3):141-154
May 1968 RA1270.P35A1
Beans, Chlorine, Corn, Elements, Insecticides, Pesticide residues, Soil analysis.

17634-68
HALOGENATED PESTICIDES; LOCALIZATION OF DIELDRIN IN WHEAT TISSUE.
R C Cotner R H Hamilton R O Mumma D E H Frear
J Agr Food Chem 16(4):608-609
Jul 1968 381 J8223
Dieldrin, Halogen compounds, Pesticides, Roots, Tissues, Wheat, X-rays, Xylem.

17635-68
THE PHOTODECOMPOSITION OF DIELDRIN RESIDUES IN WATER.
G L Henderson G C Donald
Bull Environ Contamination Toxicol 3(3):131-134
May 1968 RA1270.P35A1
Aldrin, Chemical reactions, Decomposition, Dieldrin, Insecticides, Pesticide residues, Photochemistry, Water.

17636-68
EXPOSURE TO INSECTICIDES IN QUEBEC.
Z Jegier J Brodeur
Can J Public Health 59(6):229-232
Jun 1968 449.8 P964
Accident prevention, Health, Insecticide residues, Insecticides, Research, Spraying. Summary in French

17637-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
J K Kirk
Fed Regist 33(183):14184
19 Sep 1968 L1.451
Agricultural chemistry, Dalapon, Herbicide residues, Lemons, Toxicology.

17638-68
NOTICE OF AMENDED FULING OF PETITION REGARDING PESTICIDES.
J K Kirk
Fed Regist 33(188):14480
26 Sep 1968 L1.451
Food plants, Fungi, Fungicides, Peanuts, Pesticide residues, Triphenyltin hydroxide.

17639-68
NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDES.
J K Kirk
Fed Regist 33(188):14480
26 Sep 1968 L1.451
Atrazine, Chemicals, Food plants, Herbicides, Pesticide residues, Pineapples, Rye, Wheat.

17640-68
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDES CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. DEMETON.
J K Kirk
Fed Regist 33(131):9774
06 Jul 1968 L1.451
Chemicals, Demeton, Food plants, Insecticides, Pesticide residues.

17641-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
J K Kirk
Fed Regist 33(188):14480
26 Sep 1968 L1.451
Bacillus thuringiensis, Chemicals, Food plants, Insecticides, Microorganisms, Pesticide residues, Spores.

17642-68
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
J K Kirk
Fed Regist 33(149,PT.1):10952
01 Aug 1968 L1.451
Apples, Biochemistry, Chemicals, Chloro-1-(2,4,5-trichlorophenyl) vinyl dimethyl phosphate,2-, Chromatography, Insecticide residues, Insecticides, Pesticides, Phosphorus.

17643-68
NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDES.
J K Kirk
Fed Regist 33(162):11788
20 Aug 1968 L1.451
Alfalfa, Cattle, Corn, Endosulfan, Food plants, Insecticide residues, Insecticides, Meat.

17644-68
ETHION. PROPOSED ESTABLISHMENT OF PESTICIDE TOLERANCES.
J K Kirk
Fed Regist 33(155):11362
09 Aug 1968 L1.451
Agricultural legislation, Agricultural regulation, Ethion, Insecticide residues, Meat, Milk, Toxicology.

17645-68
IMIDAN INSECTICIDE RESIDUES (IMIDAN AND IMIDOXON): THEIR PERSISTENCE IN CORN, GRASS, AND SOYBEANS.
D B Leuck M C Bowman
J Econ Entomol 61(3):705-707
Jun 1968 421 J822
Biochemistry, Chemical control (insects), Corn, Forage plants, Grasses, Imidan, Insecticide residues, Insecticides, Soybeans, Time.

17646-68
NOTICE OF AMENDED FILING OF PETITION REGARDING PESTICIDES. DUGGAN, R E.
Fed Regist 33(178):12924
12 Sep 1968 L1.451
Animals, Chloro-N-isopropylacetanilide, 2-, Corn, Herbicide residues, Metabolites, Pesticides.

17647-68
THE DEVELOPMENT OF ANALYTICAL METHODS FOR THE DETERMINATION OF CHLORINATED HYDROCARBON INSECTICIDES IN SOILS AND WATERS.
H B Pionke
Diss Abstr Sect B 28(11):4383B
May 1968 Z5055.U49D53
Assay, Chlorine, Chromatography, Hydrocarbons, Insecticide residues, Insecticides, Measurement, Soils, Water.

17648-68
GAS CHROMATOGRAPHIC ANALYSIS OF MALATHION IN WATER AND IN FISH.
M T H Ragab
Bull Environ Contamination Toxicol 3(3):155-163
May 1968 RA1270.P35A1
Chromatography, Fish, Gases, Insecticides, Malathion, Pesticide residues, Water.

17649-68
A SURVEY OF CHLORINATED PESTICIDE RESIDUES IN BLACK DUCK EGGS.
W L Reichel C E Addy
Bull Environ Contamination Toxicol 3(3):174-179,MAP
May 1968 RA1270.P35A1
Chlorine, Chromatography, Ducks, Eggs, Pesticide residues, Surveys.

17650-68
DROSOPHILA ALCOHOL DEHYDROGENASE. PURIFICATION AND PARTIAL CHARACTERIZATION.
W Sofer H Ursprung
J Biol Chem 243(11):3110-3115 REF
10 Jun 1968 381 J824
Alcohol dehydrogenase, Centrifugation, Chromatography, Drosophila melanogaster, Electrophoresis, Enzymes, Extracts, Molecular weight.

17651-68
AN EPIDEMIOLOGICAL STUDY OF PESTICIDE CONTAMINATION IN MILK ON AN OPERATING DAIRY FARM.
J W Stull W H Brown F M Whiting J M Witt
Bull Environ Contamination Toxicol 3(3):135-140
May 1968 RA1270.P35A1
Dairy cattle, Epidemiology, Feeds, Food contamination, Milk, Pesticide residues, Pesticides.

17652-68
EFFECT OF SELECTED PESTICIDES ON QUALITY OF STRAWBERRIES.
J P Sweeney V J Chapman P A Hepner
J Agr Food Chem 16(4):632-634 REF
Jul 1968 381 J8223
Captan, Chlordane, Ferbam, Fungicides, Pesticide residues, Pesticides, Sampling (statistics), Soil testing, Strawberries.

17653-68
HEPTACHLOR AND HEPTACHLOR EPOXIDE RESIDUES ON FALL-TREATED ALFALFA AND IN MILK AND COW TISSUE.
A C Waldron H E Kaeser D L Goleman J R Staubus H D Miemczyk
J Agr Food Chem 16(4):627-631 REF
Jul 1967 381 J8223
Alfalfa, Cattle, Diet, Heptachlor, Heptachlor epoxide, Milk analysis, Sampling (statistics), Tissues.

17654-68
EFFECTS OF CHARCOAL FEEDING ON DIELDRIN EXCRETION IN RUMINANTS. (ABSTRACT).
K A Wilson R M Cook R S Emery
Fed Amer Soc Exp Biol Fed Proc 27(2):558
Mar 1968 442.9 F31P
Animal metabolism, Charcoal, Dieldrin, Excretion, Feeding, Goats, Sheep.

TOXICOLOGY

17655-68
LABORATORY INVESTIGATIONS OF RESISTANCE TO WARFARIN OF RATTUS NORVEGICUS BERK. IN MONTGOMERYSHIRE AND SHROPSHIRE.
D C Drummond E J Wilson
Ann Appl Biol 61(2):303-312 REF
Apr 1968 442.8 AN72
Baits, Immunity, Laboratory animals, Mineral oil, Rattus norvegicus, Rodenticides, Rodents, Toxicology, Warfarin.

17656-68
EFFECTS OF AFLATOXIN AND BENZPYRENE ON MICROSOMAL HYDROXYLATION. (ABSTRACT).
H Gurtoo T C Campbell R Webb K Plowman
Fed Amer Soc Exp Biol Fed Proc 27(2):551
Mar 1968 442.9 F31P

340988 0029

Aflatoxin, Animal nutrition, Benzopyrene, Chemurgy, Microsomes.

17657-68
HETEROGENEITY OF CLOSTRIDIUM BOTULINUM TYPE A TOXIN.
A H W Hauschild R Hilshcimer
Can J Microbiol 14(7):805-807 REF
Jul 1968 448.8 C162
Cells, Chromatography, Clostridium botulinum, Extracts, Heterogenesis, Molecular weight, Toxins.

17658-68
SPORIDESMIN POISONING IN THE SHEEP. II. A COMPARISON OF SOME CHANGES IN CLINICAL SIGNS AND SERUM CONSTITUENTS FOLLOWING SPORIDESMIN POISONING AND EXPERIMENTAL OBSTRUCTION OF THE COMMON BILE DUCT.
D D Leaver
Res Vet Sci 9(3):265-273 REF
May 1968 41.8 R312
Bile ducts, Gamma globulins, Jaundice, Laboratory animals, Poisoning, Research, Serum, Sheep, Sporidesmin, Zinc sulfate.

17659-68
SPORIDESMIN POISONING IN THE SHEEP. I. CHANGES IN BILE SECRETION AND THE EXCRETION OF SPORIDESMIN IN BILE.
D D Leaver
Res Vet Sci 9(3):255-264 REF
May 1968 41.8 R312
Assay, Bile, Carbon tetrachloride, Gallbladder, Jaundice, Poisoning, Research, Serum, Sheep, Sporidesmin, Toxicology.

17660-68
IMMUNIZATION WITH NATIVE, INCRIMINATED WASP VENOM IN STING ALLERGY: 12-YR STUDY OF SAFETY AND EFFECTIVENESS OF A SINGLE VISIT, YEARLY COURSE. (ABSTRACT).
M H Loveless
Fed Amer Soc Exp Biol Fed Proc 27(2):368
Mar 1968 442.9 F31P
Allergies, Hymenoptera, Immunization, Toxicology, Vespidae.

17661-68
THE EFFECTS OF GOSSYPOL ON CERTAIN ENZYMES IN CELLULAR FRACTIONS OF ANIMAL TISSUES.
L A Meksongsee
Diss Abstr Sect B 28(10):3945B
Apr 1968 Z5055.U49D53
Assay, Baby pigs, Cells, Cottonseed, Enzymes, Feeding, Gossypol, Liver, Mitochondria, Phenols, Rabbits, Rats, Spectrophotometry, Toxins.

17662-68
EFFECTS OF AFLATOXIN B1 ON RAT LIVER POLYRIBOSOME PROFILE. (ABSTRACT).
R S Pong G N Wogan
Fed Amer Soc Exp Biol Fed Proc 27(2):552
Mar 1968 442.9 F31P
Aflatoxin, Animal metabolism, Biochemistry, Liver, Proteins, Rats, Toxicology.

17663-68
STUDIES ON TOXICITY OF TANNIC ACID AND THE MECHANISM(S) FOR ITS DETOXICATION IN CHICKENS.
D K Potter
Diss Abstr Sect B 28(10):3946B
Apr 1968 Z5055.U49D53
Animal physiology, Arginine, Biochemistry, Chickens, Choline, Chromatography, Diet, Eggs, Feed, Gallic acid, Metabolites, Pyrogallol, Research, Tannic acids, Toxicology, Urine.

17664-68
AFLATOXIN B1 AND IN VITRO RNA SYNTHESIS. (ABSTRACT).
A K Roy
Fed Amer Soc Exp Biol Fed Proc 27(2):552
Mar 1968 442.9 F31P
Adenosine triphosphates, Aflatoxin, Animal metabolism, Chemurgy, Culture media, Deoxyribonucleic acid, Growth factors, Ribonucleic acid.

17665-68
EFFECTS OF MELITTIN (BEE VENOM) ON NATURAL AND ARTIFICAL MEMRANES. (ABSTRACT).
G Sessa G Weissmann J H Freer R Hirschhorn
Fed Amer Soc Exp Biol Fed Proc 27(2):248
Mar 1968 442.9 F31P
Bee venom, Cells, Culture media, Liver, Rabbits, Research, Toxicology.

17666-68
A LABORATORY AND FIELD INVESTIGATION OF ADJUVANTS TO INCREASE THE RESIDUAL TOXICITY OF DICHLORVOS, MEVINPHOS AND MALATHION TO MEXICAN BEAN BEETLE AND SOUTHERN ARMYWORM LARVAE.
Z Smilowitz
Diss Abstr Sect B 28(10):4168B-4169B
Apr 1968 Z5055.U49D53
Adjuvants, Biochemistry, Chemical control (insects), Dichlorvos, Epilachna varivestis, Experimental insects, Insecticide residues, Insecticides, Malathion, Mevinphos, Prodenia cridania, Toxicology.

17667-68
PROTECTIVE EFFECT OF CHLORPROMAZINE ON PARATHION AND PARAOXON TOXICITY IN MICE. (ABSTRACT).
R A Vukovich A J Triolo J M Coon
Fed Amer Soc Exp Biol Fed Proc 27(2):597
Mar 1968 442.9 F31P
Biochemistry, Blood, Chlorpromazine, Cholinesterases, Mice, Microsomes, Mortality, Paraoxon, Parathion, Toxicology.

17668-68
IN VITRO TOXIN PRODUCTION BY THE FUNGUS BEAUVERIA BASSIANA AND BIOASSAY IN GREATER WAX MOTH LARVAE.
E S West J D Briggs
J Econ Entomol 61(3):684-687
Jun 1968 421 J822
Beauveria bassiana, Biological assay, Culture media, Dosage, Feeding, Fungi, Galleria mellonella, Injections, Larvae, Paralysis, Toxins.

17669-68
INTERPRETATION OF NUCLEAR DIVISION FIGURES IN VEGETATIVE HYPHAE OF FUNGI.
J R Aist C L Wilson
Phytopathology 58(6):876-877 REF
Jun 1968 464.8 P56
Cell nucleus, Ceratocystis fagacearum, Fungi, Fusarium oxysporum, Hyphae, Macrophomina phaseoli, Plant physiology, Vegetation.

17670-68
AMINO ACID REQUIREMENTS OF THE COTTON STAINER, DYSDERCUS FASCIATUS (PYRRHOCORIDAE, HEMIPTERA).
M A Alikhan
Entomol Exp Appl 11(1):43-50
1968 421 EN895
Amino acids, Cotton, Culture media, Dysdercus fasciatus, Extracts, Glutamic acid, Hemiptera, Injections, Inseet metabolism, Pyrrhocoridae, Radioactivity.

17671-68
SOME RELATIONSHIPS OF PHENOLIC ACIDS TO THE DEVELOPMENT OF RUST INFECTION IN FLAX COTYLEDONS.
J R Allan
Diss Abstr Sect B 28(10):4001B
Apr 1968 Z5055.U49D53
Biochemistry, Chromatography, Flax, Fungi, Injections, Melampsora lini, Metabolites, Phenols, Plant morphology, Plant physiology, Radioactivity, Rust (flax), Seedlings.

17672-68
SOME FACTORS INFLUENCING CONIDIAL PRODUCTION OF GLOMERELLA CINGULATA PATHOGENIC TO CAMELLIAS. (ABSTRACT).
S Brown L W Jr. Baxter
Phytopathology 58(6):726
Jun 1968 464.8 P56
Camellia, Culture media, Glomerella cingulata, Lighting, Plant diseases, Plant physiology, Reproduction, Spores.

17673-68
COMPARATIVE GROWTH STUDIES OF PYTHIUM IRREGULARE AND P. VEXANS. (ABSTRACT).
H F Cantrell W M Dowler
Phytopathology 58(6):726
Jun 1968 464.8 P56
Biochemistry, Fungi, Plant physiology, Pythium irregulare, Pythium vexans, Temperature.

17674-68
X-RAY ANALYSIS OF HYPHAL AND SCLEROTIIL WALLS OF SCLEROTIUM ROLFSII SACC.
I Chet Y Henis
Can J Microbiol 14(7):815-816
Jul 1968 448.8 C162
Assay, Biochemistry, Cellulose, Chitin, Infrared spectra, Melanins, Pigments, Plants, Sclerotium rolfsii, X-rays.

17675-68
ADSORPTION OF HERBICIDES BY ACTIVATED CARBON AND OTHER ADSORBENTS. (0)
D L Coffey
Diss Abstr Sect B 28(11):4380B
May 1968 Z5055.U49D53
Adsorption, Biochemistry, Biological assay, Carbon, Chemical control (weeds), Herbicides, Hydrogen-ion concentration, Plant translocation, Roots, Soil organic matter, Toxicology.

17676-68
INTRACELLULAR AND EXTRACELLULAR METABOLISM OF 3-INDOLEACETIC ACID IN THE ASEPTIC AND NONASEPTIC CULTURES OF PISUM SATIVUM ROOT TIPS. (FR)
G F Collet
Can J Bot 46(8):969-978 REF
Aug 1968 470 C16C
Biochemistry, Cells, Chromatography, Indoleacetic acid, Metabolism, Peas, Plant physiology, Roots. English summary

17677-68
INHIBITORS FROM CAROB (CERATONIA SILIQUA L.) I. NATURE OF THE INTERACTION WITH GIBBERELLIC ACID ON SHOOT GROWTH.
M R Corcoran C A West
Plant Physiol 43(6):859-864 REF
Jun 1968 450 P692
Ceratonia siliqua, Gibberellic acid, Plant extracts, Plant growth inhibitors.

Abstract

17678-68
EFFICACY OF SOME INSECTICIDES FOR TREATING CEREALS.
J Coulon
Pyrethrum Post 9(3):44-53
Apr 1968 421 P99
Grain, Insecticides, Piperonyl butoxide, Pyrethrum, Sitophilus granarius.

17679-68
THE EFFECT OF VITAMINS AND LIGHT ON CULTURAL RESPONSES OF FUSICLADIUM EFFUSUM. (ABSTRACT).
R G Davis C H Graves
Phytopathology 58(6):727
Jun 1968 464.8 P56
Agar, Biochemistry, Fusicladium effusum, Light, Plant physiology, Vitamins.

17680-68
OXIDATIVE ACTIVITY OF BOTRYTIS CINEREA EXTRACTS IN ALCOHOL. (ABSTRACT).
D W De Jong A D King K Popper
Fed Amer Soc Exp Biol Fed Proc 27(2):808
Mar 1968 442.9 F31P
Alcohol, Botrytis cinerea, Enzymes, Mitochondria, Oxidation-reduction potential, Plant physiology, Plant respiration, Serum albumin.

17681-68
TOXIC EFFECTS OF ALUMINUM ON VITIS VINIFERA, MERLOT VARIETY, CULTIVATED IN A CONTROL MEDIUM. (FR)
J Delmas
Acad Sci Compt Rend Ser D Sci Nat 265(21):1619-1622
20 Nov 1967 505 P21
Aluminum, Grapes, Nutrient solutions (plants), Plant physiology, Poisons, Toxicology. French summary

17682-68
UNIDENTIFIED NINHYDRIN POSITIVE SUBSTANCE FOUND IN THE CULTURE FILTRATE OF PLANT PATHOGENIC FUNGI WHEN CULTURED ON THE MEDIUM CONTAINING AUTHENTIC AMINO ACID. I.
H Egawa M Masuko A Ueyama
Phytopathol Soc Jap Ann 34(1):56-60
Jan 1968 464.9 P562
Amino acids, Biochemistry, Chromatography, Culture media, Filters, Fungi, Injections, Ninhydrin reaction, Plant diseases, Plant metabolism. Abstract in Japanese. A part of this paper was read at the annual Meeting of the Phytopathological Society of Japan, Tokyo, on March 1967.

Abstract: The chemical property was different from that of alanine, glycine, threonine, glutamic acid, glutamine, glucosmine, galactosamine, and anthranilic acid in thin layer chromatographic behaviors.

17683-68
PHENYLACETIC ACID, A METABOLITE OF XANTHOMONAS ORYZAE (UYEDA ET ISHIYAMA) DOWSON IN CULTURE AFFECTING UPON THE DEPRESSIVE GROWTH OF YOUNG ROOTS OF RICE SEEDLINGS. (JA)
H Egawa K Yoshii A Ueyama
Phytopathol Soc Jap Ann 34(1):46-50
Jan 1968 464.9 P562
Biochemistry, Culture media, Injections, Metabolites, Phenylacetic acid, Plant growth inhibitors, Rice, Roots, Seedlings, Temperature, Xanthomonas oryzae. Abstract in English.

17684-68
CHANGES IN PATHOGENICITY AMONG THREE ISOLATES OF GEOTRICHUM CANDIDUM AFTER SERIAL PASSAGE ON THE CHORIOALLANTOIC MEMBRANE OF EMBRYONATED CHICKEN EGGS. (ABSTRACT).
Z M El-Tobshy J B Sinclair
Phytopathology 58(6):727
Jun 1968 464.8 P56
Chickens, Eggs, Embryology, Geotrichum candidum, Parasitism, Plant physiology.

17685-68
HISTOPATHOLOGY OF GEOTRICHUM CANDIDURN IN THE CHORIOALLANTOIC MEMBRANE OF EMBRYONATED CHICKEN EGGS. (ABSTRACT).
Z M El-Tobshy J B Sinclair
Phytopathology 58(6):727
Jun 1968 464.8 P56
Chickens, Eggs, Embryology, Geotrichum candidum, Histology, Parasitism, Plant physiology.

17686-68
CALCIUM INHIBITION OF POTASSIUM ABSORPTION IN CORN ROOTS.
O E Elzam T K Hodges
Plant Physiol 42(11):1483-1488 REF
Nov 1967 450 P692
Absorption, Barley, Calcium chloride, Calcium sulfate, Corn, Kinetics, Potassium.

17687-68
SYNTHESIS AND PHYSIOLOGICAL ACTIVITY OF SEVERAL 1-SUBSTITUTED INDOLE-3-ACETIC ACIDS AND ESTERS.
R L Franklin
Diss Abstr Sect B 28(10):4041B
Apr 1968 Z5055.U49D53
Biochemistry, Biological assay, Indoleacetic acid, Infrared spectra, Nitrogen, Oats, Plant hormones, Plant physiology, Plant regulators, Ultraviolet rays.

17688-68
BIOCHEMICAL RELATIONSHIPS IN CHLOROTIC LEAVES OF MACADAMIA (MACADAMIA TETRAPHYLLA L. JOHNSON) UNDER CONDITIONS OF IRON AND MANGANESE DEFICIENCY.
I M Gilfillan
Diss Abstr Sect B 28(10):3939B
Apr 1968 Z5055.U49D53
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